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Injury Experience in Sand and Gravel Mining, 1983

U.S. Department of Labor
William E. Brock, Secretary

Mine Safety and Health Administration
David A. Zegeer, Assistant Secretary

Informational Report
IR 1174

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INJURY EXPERIENCE IN SAND AND GRAVEL MINING, 1983

by

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ABSTRACT

This Mine Safety and Health Administration (MSHA) informational report reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1983. Data reported by operators of mining establishments concerning work injuries are summarized by work location, accident classification, part of body injured, nature of injury, and occupation. Related information on employment, worktime, and operating activity also is presented. Data reported by independent contractors performing certain work at mining locations are depicted separately in this report. For ease of comparison with other metal and nonmetallic mineral mining industries and with coal mining, summary reference tabulations are included at the end of both the operator and the contractor sections of this report.

INTRODUCTION

Data used in compiling this report were reported by operators of sand and gravel mining operations on a mandatory basis as required under the Federal Mine Safety and Health Act of 1977, Public Law 91-173 as amended by Law 95-164. Since January 1, 1978, operators of sand and gravel plants which are subject to the Act have been required under 30 CFR, Part 50, to submit reports of injuries, occupational illnesses, and related data.

Only data reported by the operators and contractors themselves are utilized in this report. No estimates are made of employment, employee-hours, or injuries for nonrespondent operations except as necessary to meet statistical processing requirements by providing minimum employment data for reported unmatched injury data.

Beginning with calendar year 1978, statistical measures for injury experience in mining were changed from the measures used from 1930 through 1977. The statistical measures for injury experience adopted by MSHA in 1978 compare closely with the measures used in the Office of Occupational Safety and Health Statistics, Bureau of Labor Statistics, U. S. Department of Labor. Therefore, beginning with 1978 data, the mining industry can be compared on a standard basis with other United States industries reporting under the Occupational Safety and Health Act of 1970.

Occurrences identified as occupational illnesses by mine operators were reported to MSHA and were processed in accordance with 30 CFR PART 50.20-6. The reported illnesses are summarized in seven categories for each work location and State. Incidence rates and severity measures are not computed for occupational illnesses.

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Because of the modifications in reporting and processing procedures that became effective January 1, 1978, injury rates as currently computed are not precisely comparable to those of previous years, except for fatality rates in which the "incidence rate" (the term used after 1977) is one-fifth of the "frequency rate" (the term used prior to 1978) for otherwise similar groupings of fatal injuries and worktimes. Because of this disparity, MSHA annual publications concerning injuries, illnesses, and operating activity will not contain data for years prior to 1978.

SCOPE OF STATISTICS

The statistical data in this report cover the work experience of all personnel engaged in mine exploration, development, production, maintenance, repair, and construction work, including supervisory and technical personnel, working partners, and onsite officeworkers. Injury and illness data for all sand and gravel produced for unconsolidated deposits are covered in this report; no distinction is made between construction sand and industrial sand. Some industrial sands are produced from consolidated deposits that are classified by MSHA as stone operations because of the mining procedures used in extraction of the material.

It should be noted that amendments to legislation that funded MSHA and other government programs from December 16, 1981, through July 18, 1982, prohibited MSHA from administering or enforcing the Federal Mine Safety and Health Act of 1977 (Mine Act) or MSHA standards and regulations with respect to any person engaged in the surface mining or milling of stone, clay, feldspar, colloidal phosphate, or sand and gravel. They also provided that MSHA could not administer or enforce the Mine Act or MSHA standards and regulations on any State or political subdivision thereof. Further, MSHA could not administer or enforce the Mine Act or MSHA standards or regulations with respect to any independent construction contractor who was engaged by an operator for the construction, repair or alteration of structures, facilities, utilities or private ways or roads located on (or appurtenant to) the surface areas of any coal or other mine, and whose employees worked in a specifically demarcated area, separate from actual mining or extraction activities. No data on exempted activities are included for that period of time in Table 1 of this publication.

MSHA issued guidelines which additionally reduced the reporting requirements of independent contractors. Reporting of employment, hours worked, and injury/illness data by independent contractors is limited to the following types of work performed: mine development, including shaft and slope sinking; construction or reconstruction of mine facilities, including building or rebuilding preparation plants and mining equipment, and building additions to existing facilities; demolition of mine facilities; construction of dams; excavation or earthmoving activities involving mobile equipment; equipment installation, such as crushers and mills; equipment service or repair done underground or in the pit for a period exceeding five

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consecutive days at a particular mine; material handling within mine property, including haulage of coal, ore, refuse, etc., unless for the sole purpose of direct removal from or delivery to mine property; drilling and blasting. Also, data collected for employment and hours worked in those activities reflect the contractor's total metallic/nonmetallic work locations and total coal work locations and not the individual mine sites. For more detailed information concerning these changes, see the guidelines accompanying MSHA Policy Memoranda Nos. 82-6A MM and 81-35A C.

DEFINITION OF TERMS

Occupational Injury.--An occupational injury is an injury to a mine worker which occurs at a mine and for which medical treatment is administered, or which results in death or loss of consciousness, restriction of work or motion, inability to perform all job duties on any day after an injury, lost workdays, temporary assignment to other duties, transfer to another job, or termination. The injury usually results from a recognizable single incident. For example, an explosion of a battery which splattered a worker with sulfuric acid would be a single incident and the worker would be considered to have suffered an injury. Another example would be an injury where a worker was overcome by hydrogen sulfide gas released from an exploding vessel.

Occupational illness.--An occupational illness is an illness or disease of a mine worker which may have resulted from work at a mine or for which an award of compensation is made. To be classified as an occupational illness, the disability must result from repeated exposure to the condition or substance which caused the disability. A classic illness example is a pneumoconiosis disability which may have been induced by repeated exposure to the causative dusty condition. Dermatitis resulting from repeated exposure to lime dust or other material in the work environment also should be reported as an illness. In cases where the time of onset of illness is in doubt, the day of diagnosis of illness will be considered as the first day of illness.

Number of Operations and Associated Work Locations.--Number of operations is the number of individual respondents with a unique Federal identification number that have reported worktime data. The count and kind of operation are based on the lowest numbered (primary) subunit on employment report Form 7000-2 (see figure 2, p. 10) that contains worktime data. An associated work location is a subunit reported with a primary subunit, e.g., an "office" is almost always an associated work location. Independent contractors working on mine property performing the types of work described under "Scope of Statistics" are assigned an identification number, report to MSHA, but are not included in the count of operations. Contractor data are depicted separately in this report.

Worktime.--Worktime includes the number of workers and the number of employee-hours worked. "Average number of workers" is a summary of the average number of persons working at individual establishments during calendar quarters of active operations. "Employee-hours" is a summary of employee-hours reported.

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Employment Size Group.--Reporting operations are classified into size groups according to the average number of workers in specified work locations.

Degree of Injury.--Degree of injury indicates the seriousness of injuries. FATAL injuries are those occurrences resulting in death, NFDL (NonFatal with Days Lost) injuries are nonfatal occurrences that result in days away from work, statutory days charged, or days of restricted work activity. NDL (No Days Lost) injuries are occurrences having no lost workdays; that is, nonfatal injury occurrences resulting only in temporary loss of consciousness or medical treatment other than first aid.

> A permanent total disability is caused by any work injury or illness other than death that permanently and totally incapacitates a worker from following any gainful occupation, or that results in the loss, or the complete loss of use, of both or any combination of: hands, arms, legs, feet, or eyes.
>
> A permanent partial disability is caused by any work injury or illness other than death or permanent total disability that results in the loss, or the complete loss of use, of any member or part of a member of the body, or any permanent impairment of functions of the body or part thereof, regardless of any preexisting disability of the injured member or impaired body function.

Incidence Rate.--Incidence rate is defined as the number of injuries per 200,000 employee-hours, rounded to two decimal places. The highest rate given is 99.99. If an incidence rate is greater than 99.99, then 99.99 is printed. If no data were reported, then a hyphen is printed. If a computation is less than 0.01 after rounding, then an asterisk inside parentheses (*) is printed. The following is the standard incidence rate formula:

$$IR = \frac{\text{number of injuries} \times 200{,}000}{\text{number of employee-hours}}$$

Lost Workdays (LWD).--Lost workdays consist of days away from work (DAW) and days of restricted work activity (DRA), or statutory days charged as prescribed from a table of standard charges (see p. 7), e.g., 6,000 days for a fatality or permanent total disability.

Severity Measure.--Severity measure is the number of lost workdays per 200,000 employee-hours, rounded to whole numbers. The highest rate given is 99,999. If the computed rate is greater than 99,999, then 99,999 is printed. If no data were reported, then a hyphen is printed. If the computation results in a zero after rounding, then an asterisk inside parentheses (*) is printed. The following is the standard severity measure formula:

$$SM = \frac{\text{number of lost workdays} \times 200{,}000}{\text{number of employee-hours}}$$

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Average Severity.--Average severity is the average number of lost workdays per injury and is computed only for injuries classified as FATAL or NFDL. Lost workdays are selected on the same basis as that for computing the severity measure. The following is the standard average severity formula:

$$AS = \frac{\text{number of lost workdays}}{\text{number of injuries contributing the lost workdays}}$$

Classification of Accident.--Accident classification identifies circumstances which contributed most directly to the resulting accident. The 21 classifications in the following list are designed to categorize all accidents, whether injury-producing or not.

Electrical.--Accidents in which the electric current is most directly responsible for the resulting accident.

Entrapment.--Accidents involving entrapment of persons.

Exploding Vessels Under Pressure.--Accidents involved with bursting of air hoses, air tanks, hydraulic lines, hydraulic hoses, stand pipes, etc., due to internal pressure.

Explosives and Breaking Agents.--Accidents involving the detonation of manufactured explosives; includes Airdox and Cardox.

Falling, Rolling, or Sliding Rock or Material of Any Kind.--Accidents caused directly by falling material other than material from the roof or face. Or, if material was set in motion by machinery, by haulage, by handtools, or while being handled or disturbed, etc., the force that set the material in motion determines the classification. For example, where a rock was pushed over a highwall by a bulldozer and the rock hit another rock which hit and injured a worker--the accident is classified as machinery. Machinery (a bulldozer) most directly caused the resulting accident.

Fall of Face, Rib, Pillar, Side, or Highwall (from in place).--Accidents in this classification include falls of material while barring down or placing props, also pressure bumps and bursts. Not included are accidents in which the motion of machinery or haulage equipment caused the fall either directly or by knocking out support.

Fall of Roof, Back, or Brow (from in place).--Underground only - Accidents which include falls while barring down or placing props, also pressure bumps and bursts. Not included are accidents in which the motion of machinery or haulage equipment caused the fall either directly or by knocking out support.

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Fire.--Accidents related to uncontrolled burning of material or mineral in the mine environment. Not included are fires initiated by electricity or by ignition or explosion of gas or dust.

Handling Material.--Accidents related to handling packaged or loose material while lifting, pulling, pushing, or shoveling.

Handtools.--Accidents related to nonpowered tools.

Nonpowered Haulage.--Accidents related to the motion of nonpowered haulage equipment. Included are accidents involving wheelbarrows, manually pushed mine cars, timber trucks, etc.

Powered Haulage.--Accidents related to the motion of powered haulage equipment. Included are accidents involving conveyors, front-end loaders, forklifts, shuttle cars, load-haul-dump units, locomotives, railroad cars, haulage trucks, pickups, automobiles, and personnel carriers.

Hoisting.--Accidents involving cages, skips, ore buckets, and elevators. The accident results from the action, motion, or failure of the hoisting equipment or mechanism. Included are equipment such as cranes and derricks only when used in shaft sinking; also suspended work platforms in shafts. Not included is equipment such as chain hoists, come-alongs, and winches.

Ignition or Explosion of Gas or Dust.--Accidents resulting as a consequence of the ignition or explosion of gas or dust.

Impoundment.--Accidents caused by an unstable condition or failure of an impoundment, refuse pile, or culm bank requiring emergency preventative action or evacuation of an area.

Inundation.--Accidents caused by inundation of a surface or underground mine by a liquid (or semi-solid) or a gas.

Machinery.--Accidents related to the motion of machinery. Included are all electric and air-powered tools and mining machinery such as drills, tuggers, winches, slushers, draglines, power shovels, loaders, and compressors.

Slip or Fall of Person (from an elevation or on the same level).--Accidents include slips or falls while getting on or off machinery and haulage equipment which is not moving, and slips or falls while servicing or repairing equipment or machinery.

Stepping or Kneeling on Object.--Accidents are classified in this category only where the object stepped or kneeled on contributed most directly to the accident.

Striking or Bumping.--This classification is restricted to those accidents in which an individual, while moving about, strikes or bumps an object but is not handling material, using handtools, or operating equipment.

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Other.--Accidents not elsewhere classified.

Abbreviations.--Space limitations in column headings and stub entries of standard-format tabulations require occasional adaptation of terminology. In this report PLNTS should be interpreted as "plants."

Statutory Days Charged.--Some injuries or illnesses are of such a degree of severity that a standard time charge of lost workdays has been adopted by MSHA as follows:

Disability	Lost Workdays Charged 1/
Death	6,000
Permanent total disability	6,000
Dismemberment or total loss of use	
Arm above elbow	4,500
Arm at or below elbow and above wrist	3,600
Hand at wrist	3,000
Leg above knee	4,500
Leg at or below knee and above ankle	3,000
Foot at ankle	2,400
Loss of sight:	
One eye (whether or not there is sight in the other eye)	1,800
Both eyes (in one accident)	6,000
Complete industrial loss of hearing:	
One ear (whether or not there is hearing in the other ear)	600
Both ears (in one accident)	3,000
Unrepaired hernia	50

2/ Not more than 6,000 lost workdays will be charged in a single accident that results in multiple injuries to a mine worker. (See definition of permanent total disability on page 4.)

TABLE REFERENCE GUIDE (OPERATOR DATA)

The following reference guide facilitates locating particular data elements contained in the annual statistical tables for operators. A comparable guide precedes the contractor section of this report. The number appearing in each cell indicates the table number in which that particular element may be found. All elements listed under the stub headings appear as vertical headings in the tables. Elements listed under column headings appear as horizontal headings. The only exception to this is table 1, in which the headings have been reversed.

To use this guide, read down or across the elements listed in both the stub and column headings to determine which combinations are of interest. For example, incidence rates by work location appear in six different tables, numbers 2, 4, 6, 8, 18, and 19. However, only one, table 8, provides a further division by nature of injury as well. The occupation of the injured is found in table 13 and, as seen in the column headings, provides the number of injuries, lost workdays, and average severity.

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REFERENCE GUIDE TO SAND AND GRAVEL STATISTICAL TABLES (OPERATOR DATA)

STUB HEADINGS / COLUMN HEADINGS	Number of injuries	Incidence rates	Severity measures	Lost workdays	Average severity	Average number of workers	Employee-hours worked	Number of operations	Associated work locations	Average hours per employee per year	Accident classification	Number of occupational illnesses	Coal production (short tons)
Prior year data with and without office 1/	1	1	1		1	1	1	1	1	1			
Work location	2	2	2			2	2	2	2				
	3			3	3								
	4	4	4			4	4	4	4				
	5			5	5								
	6	6	6										
	7			7	7								
	8	8	8										
	9			9	9								
	11										11		
				12							12		
	13			13	13								
	14			14	14								
												17	
	18	18				18	18						
	19	19				19	19						19
Employment size group	2	2	2			2	2	2	2				
	3			3	3								
State	4	4	4			4	4	4	4				
	5			5	5								
	11										11		
				12							12		
												17	
Part of body injured	6	6	6										
	7			7	7								
	10			10	10								
	15			15	15								
Nature of injury	8	8	8										
	9			9	9								
	10			10	10								
	16			16	16								
Occupation at time of injury	13			13	13								
Accident classification	14			14	14								
	15			15	15								
	16			16	16								
Mineral industry												17	
	18	18				18	18						
Type of coal	19	19				19	19						19

1/ For table 1 only, the headings have been reversed to simplify this guide; that is, the data elements indicated in the column headings for this table actually appear as vertical headings.

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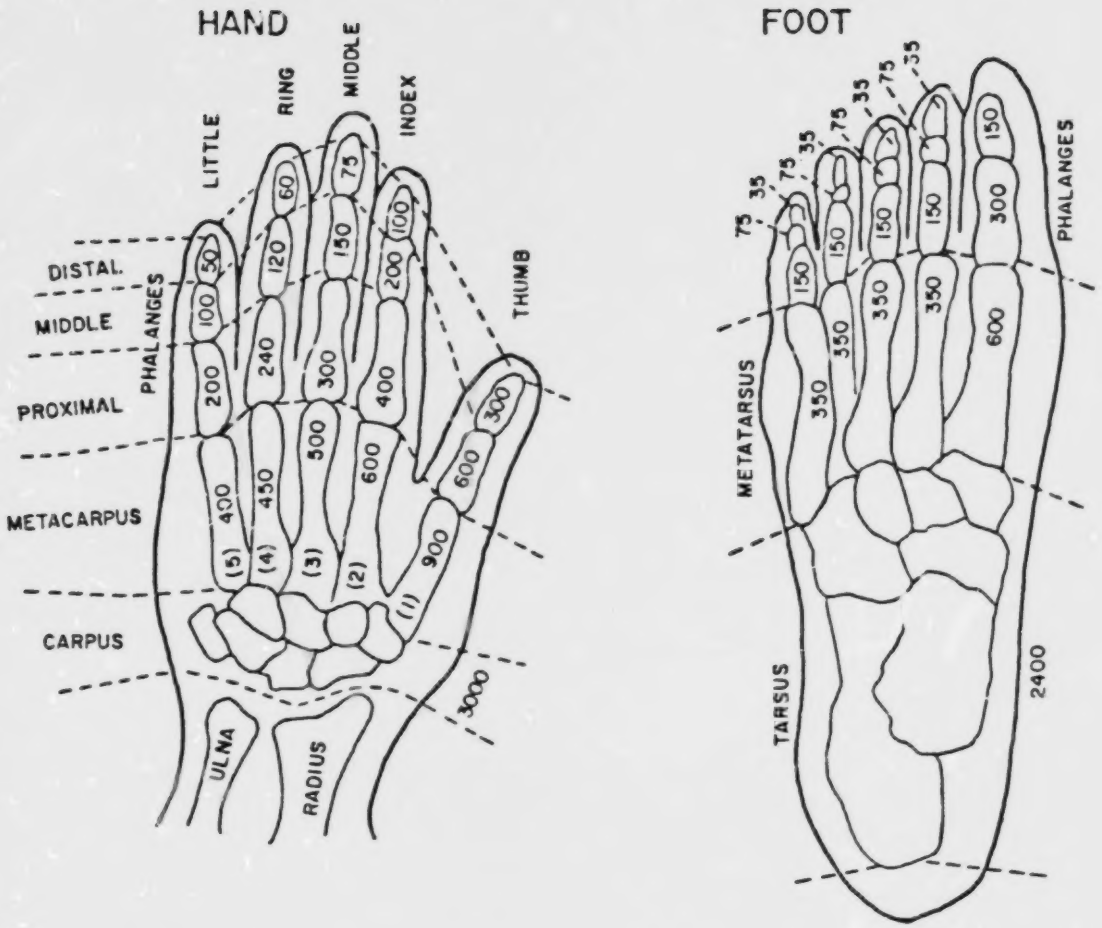

Note:
Numbers shown on diagrams are statutory charges of lost workdays for loss of all or part of bone.
Proportional charges may be computed based on medical determination of percentage loss of use.

FIGURE 1. Scheduled charges in lost workdays for loss or loss of use involving hand or foot.

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Quarterly Mine Employment and Coal Production Report

U.S. Department of Labor
Mine Safety and Health Administration

Do Not Write In This Space

OMB No. 1219-0006 Approval Expires November 1985

This report is required by law (30 U.S.C. § 813, 30 C.F.R. Part 50). Failure to report can result in the institution of a civil action for relief under 30 U.S.C. § 818 respecting an operator of a coal or other mine, and assessment of a civil penalty against an operator of a coal or other mine under 30 U.S.C. § 820 (a). An individual who, being subject to the Federal Mine Safety and Health Act of 1977 (30 U.S.C. § 801 et seq.) knowingly makes a false statement in any report can be punished by a fine of not more than $10,000 or by imprisonment for not more than 5 years, or both, under 30 U.S.C. § 820 (f). Any individual who knowingly and willfully makes any false, fictitious, or fraudulent statements, conceals a material fact, or makes a false, fictitious, or fraudulent entry, with respect to any matter within the jurisdiction of any agency of the United States can be punished by a fine of not more than $10,000, or imprisoned for not more than 5 years, or both, under 18 U.S.C. § 1001.

1. Fill out this form as completely as possible and return the first sheet of this report to →
2. If it is necessary to make any address changes, indicate corrected information on this form.
3. When preaddressed, this form is only for the operation with I.D. number as shown; including contractor I.D. if appropriate. Do not use for any other operation.
4. SAND AND GRAVEL operators report employment data under code 03 or 06 as appropriate, except for data on office workers which should be reported under code 99.
5. All mine operators and independent contractors reporting as required by 30 CFR, Part 50, should show persons working and employee hours worked, those producing coal show also production data.

MSHA, Health and Safety Analysis Center
P.O. Box 25367, Federal Center
Denver, Colorado 80225

DATE REPORT COMPLETED
MO DAY YR

FOR QUARTER
( )

MAIL BEFORE

▶ Check here if this report is being submitted by a contractor ☐

IF ANY INFORMATION BELOW IS INCORRECT PLEASE ENTER CORRECT INFORMATION HERE

COUNTY

OPERATION NAME

OPERATING COMPANY NAME AND ADDRESS

MSHA I.D. NO. CONTRACTOR I.D.

COUNTY

OPERATION NAME

OPERATING COMPANY NAME AND ADDRESS

1. Persons Working, Employee-Hours, and Coal Production

(1) Operation Sub Unit Code(s) previously reported.		Code	(2) Average number of persons working during quarter	(3) Total employee hours worked during the quarter	(4) Production of clean coal during quarter, (short tons)
Underground Mine	Underground	01			
	Surface Shops, Yards, Etc.	02			
Surface Mine (including shops and yards)	Strip, Open Pit, or Quarry	03			
	Auger (Coal Mine Only)	04			
	Culm Bank or Refuse Pile (coal mine only)	05			
	Dredge	06			
	Other (Metal/Non-metal Surface Mining)	12			
	Independent Shops or Yards	17			
Mill Operations, Preparation Plant, or Breaker (include associated shops and yards)		30			
Office (professional and clerical workers at the mine or plant)		99			

2. Other Reportable Data

How many MSHA reportable injuries or illnesses did you have this quarter?

	Name	Title	Phone (Incl. Area Code)
Person to be contacted regarding this report			

10

FIGURE 2. Quarterly mine employment and coal production report form.

Mine Accident, Injury and Illness Report

U. S. Department of Labor
Mine Safety and Health Administration

Form Approved, OMB No. 1219-0007, Expires September 1985

● **Section A – Identification Data**

MSHA ID Number | Contractor I D | Report Category ☐ Metal/Nonmetal Mining ☐ Coal Mining | ☐ Check here if report pertains to contractor

Mine Name | Company Name

● **Section B – Complete for Each Reportable Accident Immediately Reported to MSHA**

1 Accident Code (circle applicable code – see instructions) 01 – Death 02 – Serious Injury 03 – Entrapment 04 – Inundation 05 – Gas or Dust Ignition 06 – Mine Fire 07 – Explosives 08 – Roof Fall 09 – Outburst 10 – Impounding Dam 11 – Hoisting 12 – Offsite Injury

2 Name of Investigator | 3 Date Investigation Started (Month, Day, Year) | 4 Steps Taken to Prevent Recurrence of Accident

● **Section C – Complete for Each Reportable Accident, Injury or Illness**

5 Circle the Codes Which Best Describe Where Accident/Injury/Illness Occurred (see instructions)

(a) Surface Location 02 Surface at Underground Mine 30 Mill, Preparation Plant, etc 03 Strip/Open Pit Mine 04 Surface Auger Operation 05 Culm Bank/Refuse Pile 06 Dredge Mining 12 Other Surface Mining 17 Independent Shops (with own MSHA ID) 99 Office Facilities

(b) Underground Location 01 Vertical Shaft 02 Slope/Inclined Shaft 03 Face 04 Intersection 05 Underground Shop/Office 06 Other

(c) Underground Mining Method 01 Longwall 02 Shortwall 03 Conventional Stoping, 05 Continuous Miner 06 Hand 07 Caving 08 Other

6 Date of Accident (Month, Day, Year) | 7 Time of Accident ☐ am ☐ pm | 8 Time Shift Started ☐ am ☐ pm

9 Describe Fully the Conditions Contributing to the Accident/Injury/Illness, and Quantify the Damage or Impairment

10 Equipment Involved | Type | Manufacturer | Model Number

11 Name of Witness to Accident/Injury/Illness | 12 Number of Reportable Injuries or Illnesses Resulting from This Occurrence

13 Name of Injured/Ill Employee | 14 Sex ☐ Male ☐ Female | 15 Date of Birth (Month, Day, Year)

16 Last Four Digits of Social Security Number | 17 Regular Job Title | ☐ 18 Check if this Injury/Illness resulted in death. | ☐ 19 Check if Injury/Illness resulted in permanent disability (include amputation, loss of use, & permanent total disability).

20 What Directly Inflicted Injury or Illness? | 21 Nature of Injury or Illness

22 Part of Body Injured or Affected | 23 Occupational Illness (circle applicable code – see instructions) 21 Occupational Skin Diseases 22 Dust Diseases of the Lungs 23 Respiratory Conditions (toxic agents) 24 Poisoning (toxic materials) 25 Disorders (physical agents) 26 Disorders (repeated trauma) 29 Other

24 Employee's Work Activity When Injury or Illness Occurred

Experience	Years	Weeks
25 Experience in This Job Title		
26 Experience at This Mine		
27 Total Mining Experience		

● **Section D – Return to Duty Information** *Answer 30 & 31 when case is closed*

☐ 28 Permanently Transferred or Terminated (if checked, complete items 29, 30 & 31)

29 Date Returned to Regular Job at Full Capacity (or item 28) (Month, Day, Year)	30 Number of Days Away from Work (if none, enter 0)	31 Number of Days Restricted Work Activity (if none, enter 0)

Person Completing Form (name) | Title

Date This Report Prepared (month, day, year) | Area Code and Phone Number

MSHA Form 7000-1, Feb. 80 (revised)

For Official Use Only
Degree
Accident Type
Accident Class
Scheduled Charge
Keyword

PAGE 1 **MAIL THIS PAGE TO THE HEALTH AND SAFETY ANALYSIS CENTER, MINE SAFETY AND HEALTH ADMINISTRATION, P. O. BOX 25367, DENVER, COLORADO 80225**

FIGURE 3. Mine accident, injury, and illness report form.

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TABLE 1. - GENERAL STATISTICS ON INJURY EXPERIENCE AND WORKTIME, AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

	EXCLUDING OFFICEWORKERS					INCLUDING OFFICEWORKERS				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
NUMBER OF INJURIES:										
FATAL	25	15	9	6	15	25	15	9	6	15
NFDL	1,196	924	675	162	573	1,200	935	682	163	576
TOTAL LWD INJURIES	1,221	939	684	168	588	1,225	950	691	169	591
RDL	619	380	321	103	239	626	382	327	104	241
TOTAL INJURIES	1,840	1,319	1,005	271	827	1,851	1,332	1,018	273	832
INCIDENCE RATES:										
FATAL	.08	.05	.04	.05	.06	.07	.04	.03	.04	.05
NFDL	3.62	3.10	2.63	1.37	2.41	3.18	2.72	2.29	1.18	2.09
ALL LWD INJURIES	3.69	3.15	2.67	1.42	2.47	3.25	2.77	2.32	1.23	2.14
RDL	1.87	1.27	1.25	.87	1.01	1.66	1.11	1.10	.75	.87
ALL INJURIES	5.57	4.42	3.92	2.28	3.48	4.91	3.88	3.42	1.98	3.02
SEVERITY MEASURES:										
FATAL	454	302	210	304	379	398	262	181	261	326
NFDL	107	127	139	55	201	94	114	120	48	174
ALL LWD INJURIES	561	428	360	358	580	492	376	302	309	500
AVERAGE SEVERITY:										
PERMANENT PARTIAL	336	442	423	130	768	336	442	423	130	768
TEMPORARY NFDL	19	22	22	33	29	19	23	21	33	29
ALL LWD INJURIES	152	136	131	253	234	151	136	130	252	233
AVERAGE NUMBER OF WORKERS	43,939	40,084	35,725	29,106	30,350	50,143	46,108	41,494	34,048	35,594
EMPLOYEE-HOURS WORKED	66,106,763	59,696,632	51,325,485	23,721,472	47,538,705	75,388,110	68,633,694	59,547,638	27,550,325	55,152,174
AVERAGE HOURS PER EMPLOYEE PER YEAR	1,505	1,489	1,437	815	1,566	1,503	1,489	1,435	809	1,549
OPERATIONS REPORTED:										
NUMBER OF OPERATIONS	7,033	6,862	6,554	5,113	5,568	7,058	6,891	6,588	5,154	5,589
ASSOCIATED WORK LOCATIONS	-	-	-	-	-	3,082	3,018	2,921	2,462	2,681

TABLE 2. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES		FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
SURFACE MINES:																				
OPEN PIT:																				
1 - 4	2	-	6	65	71	73	27	100	.05	1.77	1.82	.67	2.50	300	257	557	7,423	8,006,723	3,072	-
5 - 9	5	-	3	108	111	116	49	165	.09	1.96	2.04	.86	2.91	529	56	585	7,615	11,349,925	1,179	-
10 - 19	-	1	7	118	126	126	53	179	-	2.50	2.50	1.05	3.55	-	330	338	5,849	10,081,752	448	-
20 - 34	1	-	3	78	81	82	32	114	.04	3.09	3.13	1.22	4.35	229	105	334	2,629	5,235,988	108	-
35 - 49	-	-	1	41	42	42	37	79	-	3.39	3.39	2.98	6.37	-	150	150	1,259	2,480,682	30	-
50 - 99	-	-	4	21	25	25	14	39	-	2.61	2.61	1.46	4.07	-	812	812	1,154	1,918,802	18	-
100 - 149	-	-	-	5	5	5	3	8	-	2.53	2.53	1.52	4.05	-	60	60	209	395,445	2	-
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	.04	2.34	2.38	1.09	3.47	243	218	461	26,138	39,469,317	4,857	-
DREDGE:																				
1 - 4	2	-	2	18	20	22	5	27	.23	2.29	2.52	.57	3.05	1,373	100	1,473	1,133	1,748,038	432	-
5 - 9	3	-	3	19	22	25	1	26	.28	2.09	2.37	.09	2.46	1,706	76	1,782	1,103	2,109,627	175	-
10 - 19	1	-	1	27	28	29	5	34	.11	2.99	3.10	.53	3.63	641	82	723	876	1,870,878	67	-
20 - 34	1	-	4	27	31	32	7	39	.13	4.08	4.21	.92	5.13	789	285	1,074	765	1,521,220	30	-
35 - 49	-	-	-	10	10	10	4	14	-	4.41	4.41	1.76	6.17	-	60	60	210	453,625	5	-
50 - 99	-	-	-	1	1	1	2	3	-	.55	.55	1.09	1.64	-	4	4	125	366,000	2	-
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	.17	2.78	2.95	.59	3.54	1,041	118	1,159	4,212	8,069,388	711	-
TOTAL OR AVERAGE, MINING:																				
1 - 4	4	-	8	83	91	95	32	127	.08	1.87	1.95	.66	2.60	492	229	721	8,556	9,754,761	3,504	-
5 - 9	8	-	6	127	133	141	50	191	.12	1.98	2.10	.74	2.84	713	59	773	8,718	13,459,552	1,354	-
10 - 19	1	1	8	145	154	155	58	213	.02	2.58	2.59	.97	3.56	100	298	399	6,725	11,952,630	515	-
20 - 34	2	-	7	105	112	114	39	153	.06	3.31	3.37	1.15	4.53	355	146	501	3,394	6,757,208	138	-
35 - 49	-	-	1	51	52	52	41	93	-	3.34	3.54	2.79	6.34	-	136	136	1,469	2,934,307	35	-
50 - 99	-	-	4	22	26	26	16	42	-	2.28	2.28	1.40	3.68	-	683	683	1,279	2,284,802	20	-
100 - 149	-	-	-	5	5	5	3	8	-	2.53	2.53	1.52	4.05	-	60	60	209	395,445	2	-
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	.06	2.41	2.47	1.01	3.48	379	201	580	30,350	47,538,705	5,568	-
OFFICE:																				
1 - 4	-	-	-	1	1	1	1	2	-	.04	.04	.04	.07	-	(*)	(*)	3,985	5,646,743	20	2,519
5 - 9	-	-	-	1	1	1	1	2	-	.17	.17	.17	.34	-	6	6	758	1,191,677	1	125
10 - 19	-	-	-	1	1	1	-	1	-	.30	.30	-	.30	-	1	1	410	658,899	-	33
20 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	116,150	-	4
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	.08	.08	.05	.13	-	1	1	5,244	7,613,469	21	2,681
GRAND TOTAL OR AVERAGE:																				
1 - 4	4	-	8	84	92	96	33	129	.05	1.19	1.25	.43	1.68	312	145	457	12,541	15,401,504	3,524	2,519
5 - 9	8	-	6	128	134	142	51	193	.11	1.83	1.94	.70	2.63	655	55	710	9,476	14,651,229	1,355	125
10 - 19	1	1	8	146	155	156	58	214	.02	2.46	2.47	.92	3.39	95	283	378	7,135	12,611,529	515	33
20 - 34	2	-	7	105	112	114	39	153	.06	3.26	3.32	1.13	4.45	349	143	493	3,485	6,873,358	138	4
35 - 49	-	-	1	51	52	52	41	93	-	3.34	3.54	2.79	6.34	-	136	136	1,469	2,934,307	35	-
50 - 99	-	-	4	22	26	26	16	42	-	2.28	2.28	1.40	3.69	-	683	683	1,279	2,284,802	20	-
100 - 149	-	-	-	5	5	5	3	8	-	2.53	2.53	1.52	4.05	-	60	60	209	395,445	2	-
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	.05	2.09	2.14	.87	3.02	326	174	500	35,594	55,152,174	5,589	2,681

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TABLE 3. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND EMPLOYMENT SIZE GROUP AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND EMPLOYMENT SIZE GROUP	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
1 - 4	2	-	6	65	71	73	27	100	12,000	-	8,050	2,242	10,292	22,292	1,342	34	305
5 - 9	5	-	3	108	111	116	49	165	30,000	-	550	2,642	3,192	33,192	183	24	286
10 - 19	-	1	7	118	126	126	53	179	-	6,000	7,760	3,303	17,063	17,063	1,108	28	135
20 - 34	1	-	3	78	81	82	32	114	6,000	-	400	2,356	2,756	8,756	133	30	107
35 - 49	-	-	1	41	42	42	37	79	-	-	50	1,807	1,857	1,857	50	44	44
50 - 99	-	-	4	21	25	25	14	39	-	-	7,250	545	7,795	7,795	1,812	26	312
100 - 149	-	-	-	5	5	5	3	8	-	-	-	118	118	118	-	24	24
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194
DREDGE:																	
1 - 4	2	-	2	18	20	22	5	27	12,000	-	510	368	878	12,878	255	20	585
5 - 9	3	-	3	19	22	25	1	26	18,000	-	550	247	797	18,797	183	13	752
10 - 19	1	-	1	27	28	29	5	34	6,000	-	75	689	764	6,764	75	26	233
20 - 34	1	-	4	27	31	32	7	39	6,000	-	900	1,271	2,171	8,171	225	47	255
35 - 49	-	-	-	10	10	10	4	14	-	-	-	137	137	137	-	14	14
50 - 99	-	-	-	1	1	1	2	3	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393
TOTAL OR AVERAGE, MINING:																	
1 - 4	4	-	8	83	91	95	32	127	24,000	-	8,560	2,610	11,170	35,170	1,070	31	370
5 - 9	8	-	6	127	133	141	50	191	48,000	-	1,100	2,889	3,989	51,989	183	23	369
10 - 19	1	1	8	145	154	155	58	213	6,000	6,000	7,835	3,992	17,827	23,827	979	28	154
20 - 34	2	-	7	105	112	114	39	153	12,000	-	1,300	3,627	4,927	16,927	186	35	148
35 - 49	-	-	1	51	52	52	41	93	-	-	50	1,944	1,994	1,994	50	38	38
50 - 99	-	-	4	22	26	26	16	42	-	-	7,250	552	7,802	7,802	1,812	25	300
100 - 149	-	-	-	5	5	5	3	8	-	-	-	118	118	118	-	24	24
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
1 - 4	-	-	-	1	1	1	1	2	-	-	-	14	14	14	-	14	14
5 - 9	-	-	-	1	1	1	1	2	-	-	-	33	33	33	-	33	33
10 - 19	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
20 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17
GRAND TOTAL OR AVERAGE:																	
1 - 4	4	-	8	84	92	96	33	129	24,000	-	8,560	2,624	11,184	35,184	1,070	31	366
5 - 9	8	-	6	128	134	142	51	193	48,000	-	1,100	2,922	4,022	52,022	183	23	366
10 - 19	1	1	8	146	155	156	58	214	6,000	6,000	7,835	3,995	17,830	23,830	979	27	153
20 - 34	2	-	7	105	112	114	39	153	12,000	-	1,300	3,627	4,927	16,927	186	35	148
35 - 49	-	-	1	51	52	52	41	93	-	-	50	1,944	1,994	1,994	50	38	38
50 - 99	-	-	4	22	26	26	16	42	-	-	7,250	552	7,802	7,802	1,812	25	300
100 - 149	-	-	-	5	5	5	3	8	-	-	-	118	118	118	-	24	24
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL			TOTAL NFDL	TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY																
		TOTAL	PARTIAL																	
OPEN PIT:																				
ALABAMA	-	-	-	8	8	8	2	10	-	2.38	2.38	.59	2.97	-	48	48	393	673,211	70	-
ALASKA	-	-	1	4	5	5	1	6	-	3.36	3.36	.67	4.03	-	341	341	167	297,561	26	-
ARIZONA	1	-	-	16	16	17	8	25	.12	1.91	2.03	.95	2.98	716	60	775	1,138	1,677,084	140	-
ARKANSAS	-	1	1	9	11	11	6	17	-	3.75	3.75	2.05	5.80	-	2,146	2,146	314	586,361	55	-
CALIFORNIA	1	-	5	88	93	94	43	137	.04	4.13	4.17	1.91	6.08	266	387	653	2,887	4,505,866	273	-
COLORADO	-	-	2	19	21	21	10	31	-	2.96	2.96	1.41	4.37	-	95	95	1,043	1,419,506	184	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	310	453,496	67	-
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	18,099	4	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151	291,002	23	-
GEORGIA	-	-	-	3	3	3	-	3	-	2.52	2.52	-	2.52	-	25	25	127	238,276	20	-
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	26,210	2	-
IDAHO	-	-	-	1	1	1	1	2	-	.95	.95	.95	1.90	-	1	1	203	210,652	54	-
ILLINOIS	-	-	1	10	11	11	-	11	-	2.29	2.29	-	2.29	-	1,005	1,005	566	961,976	141	-
INDIANA	-	-	-	12	12	12	1	13	-	2.47	2.47	.21	2.67	-	131	131	553	972,859	131	-
IOWA	-	-	-	5	5	5	-	5	-	1.41	1.41	-	1.41	-	18	18	566	710,309	129	-
KANSAS	-	-	1	1	2	2	-	2	-	1.25	1.25	-	1.25	-	277	277	213	320,412	61	-
KENTUCKY	-	-	-	5	5	5	-	5	-	6.81	6.81	-	6.81	-	90	90	87	146,770	17	-
LOUISIANA	-	-	-	2	2	2	1	3	-	.83	.83	.42	1.25	-	31	31	260	480,697	30	-
MAINE	-	-	-	2	2	2	-	2	-	1.13	1.13	-	1.13	-	12	12	454	353,171	120	-
MARYLAND	-	-	1	21	22	22	8	30	-	3.90	3.90	1.42	5.32	-	94	94	528	1,128,414	41	-
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	3.02	3.02	-	3.02	-	185	185	468	727,697	118	-
MICHIGAN	-	-	1	16	17	17	8	25	-	2.27	2.27	1.07	3.34	-	52	52	1,236	1,496,663	282	-
MINNESOTA	1	-	-	8	8	9	4	13	.22	1.73	1.94	.86	2.80	1,394	111	1,405	838	927,185	217	-
MISSISSIPPI	-	-	-	6	6	6	3	9	-	1.74	1.74	.87	2.62	-	24	24	340	687,878	61	-
MISSOURI	-	-	-	1	1	1	-	1	-	.55	.55	-	.55	-	1	1	256	366,433	61	-
MONTANA	-	-	-	5	5	5	1	6	-	2.02	2.02	.40	2.42	-	33	33	397	495,754	85	-
NEBRASKA	-	-	-	1	1	1	-	1	-	.57	.57	-	.57	-	13	13	250	348,203	74	-
NEVADA	-	-	1	3	4	4	5	9	-	2.00	2.00	2.49	4.49	-	2,288	2,288	294	400,868	50	-
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	.54	.54	-	.54	-	1	1	232	366,979	45	-
NEW JERSEY	1	-	-	2	2	3	-	3	.32	.65	.97	-	.97	1,949	28	1,976	327	615,787	54	-
NEW MEXICO	-	-	-	14	14	14	7	21	-	4.55	4.55	2.27	6.82	-	165	165	424	615,932	81	-
NEW YORK	1	-	-	8	8	9	6	15	.13	1.03	1.16	.77	1.93	774	24	798	1,436	1,551,031	397	-
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	2.46	2.46	.45	2.91	-	40	40	544	894,603	93	-
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	1.11	1.11	.74	1.85	-	21	21	353	541,938	82	-
OHIO	-	-	1	15	16	16	9	25	-	1.66	1.66	.93	2.59	-	57	57	1,039	1,930,179	194	-
OKLAHOMA	-	-	-	2	2	2	1	3	-	.85	.85	.43	1.28	-	1	1	397	468,562	110	-
OREGON	-	-	1	4	5	5	-	5	-	2.18	2.18	-	2.18	-	197	197	372	457,744	72	-
PENNSYLVANIA	2	-	-	13	13	15	1	16	.54	3.51	4.05	.27	4.32	3,238	113	3,351	470	741,255	98	-
PUERTO RICO	-	-	-	2	2	2	-	2	-	2.01	2.01	-	2.01	-	129	129	155	198,782	26	-
RHODE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	104,610	16	-
SOUTH CAROLINA	-	-	-	6	6	6	6	12	-	1.73	1.73	1.73	3.47	-	24	24	337	692,096	48	-
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	1.27	1.27	-	-	-	292	315,411	98	-
TENNESSEE	-	-	-	4	4	4	3	7	-	1.96	1.96	1.47	3.43	-	38	38	220	408,550	43	-
TEXAS	-	-	4	61	65	65	49	114	-	2.61	2.61	1.97	4.57	-	351	351	2,404	4,983,782	217	-
UTAH	1	-	-	3	3	4	7	11	.32	.96	1.28	2.24	3.52	1,918	35	1,955	541	625,539	93	-
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212	173,322	89	-
VIRGINIA	-	-	-	13	13	13	8	21	-	3.87	3.87	2.38	6.26	-	180	180	334	671,203	41	-
WASHINGTON	-	-	1	5	6	6	6	12	-	1.34	1.34	1.34	2.69	-	26	26	712	893,275	158	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	44,850	3	-
WISCONSIN	-	-	-	13	13	13	3	16	-	3.14	3.14	.72	3.86	-	206	206	762	828,944	185	-
WYOMING	-	-	-	2	2	2	1	3	-	.95	.95	.47	1.42	-	2	2	416	422,270	78	-
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	.04	2.34	2.38	1.09	3.47	243	218	461	26,138	39,469,317	4,857	-

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TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
DREDGE:																				
ALABAMA	-	-	-	5	5	5	-	5	-	4.08	4.08	-	4.08	-	88	88	121	245,278	17	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	12,279	2	-
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6,360	1	-
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	122,564	10	-
CALIFORNIA	-	-	-	2	2	2	-	2	-	2.11	2.11	-	2.11	-	27	27	110	190,016	10	-
COLORADO	-	-	-	-	-	-	1	1	-	-	-	6.67	6.67	-	-	-	18	29,983	3	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	4,952	3	-
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	23,176	2	-
FLORIDA	-	-	1	8	9	9	1	10	-	2.04	2.04	.23	2.26	-	134	134	342	883,217	28	-
GEORGIA	-	-	-	1	1	1	-	1	-	2.50	2.50	-	2.50	-	20	20	42	80,112	14	-
ILLINOIS	-	-	-	2	2	2	1	3	-	1.19	1.19	.59	1.78	-	33	33	177	336,279	38	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	155,072	19	-
IOWA	-	-	-	7	7	7	3	10	-	5.06	5.06	2.17	7.23	-	67	67	154	276,564	28	-
KANSAS	-	-	1	9	10	10	1	11	-	4.82	4.82	.48	5.30	-	167	167	223	415,350	58	-
KENTUCKY	-	-	-	6	6	6	-	6	-	6.31	6.31	-	6.31	-	66	66	98	190,154	12	-
LOUISIANA	1	-	1	7	8	9	-	9	.18	1.46	1.64	-	1.64	1,096	26	1,123	567	1,094,712	76	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	42,440	2	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	12,497	2	-
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	70,396	10	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	27,699	3	-
MISSISSIPPI	-	-	2	2	4	4	-	4	-	2.12	2.12	-	2.12	-	299	299	193	378,006	29	-
MISSOURI	1	-	-	5	5	6	-	6	.68	3.38	4.05	-	4.05	4,054	38	4,092	189	296,027	38	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,186	1	-
NEBRASKA	1	-	1	5	6	7	1	8	.31	1.84	2.14	.31	2.45	1,838	144	1,982	427	652,711	118	-
NEW JERSEY	-	-	-	13	13	13	7	20	-	5.31	5.31	2.86	8.17	-	126	126	265	489,855	20	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	98,374	8	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	115,024	25	-
OHIO	-	-	-	1	1	1	1	2	-	1.09	1.09	1.09	2.17	-	1	1	96	183,909	21	-
OKLAHOMA	2	-	-	6	6	8	1	9	1.22	3.65	4.86	.61	5.47	7,290	153	7,443	181	329,211	41	-
OREGON	1	-	-	-	-	1	-	1	1.82	-	1.82	-	1.82	10,916	-	10,916	56	109,930	4	-
PENNSYLVANIA	-	-	2	9	11	11	-	11	-	8.66	8.66	-	8.66	-	788	788	112	253,942	7	-
PUERTO RICO	-	-	-	1	1	1	-	1	-	5.01	5.01	-	5.01	-	50	50	22	39,905	3	-
SOUTH CAROLINA	-	-	-	1	1	1	-	1	-	1.95	1.95	-	1.95	-	21	21	52	102,372	14	-
TENNESSEE	-	-	-	2	2	2	-	2	-	3.31	3.31	-	3.31	-	36	36	59	120,850	9	-
TEXAS	1	-	2	10	12	13	7	20	.33	3.96	4.29	2.31	6.61	1,982	205	2,188	265	605,373	19	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	975	1	-
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	8,644	7	-
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	17,969	3	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	27,435	1	-
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	15,630	3	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	960	1	-
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	.17	2.78	2.95	.59	3.54	1,041	118	1,159	4,212	8,069,388	711	-

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TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
TOTAL OR AVERAGE, MINING:																				
ALABAMA	-	-	-	13	13	13	2	15	-	2.83	2.83	.44	3.27	-	59	59	514	918,489	87	-
ALASKA	-	-	1	4	5	5	1	6	-	3.23	3.23	.65	3.87	-	328	328	180	309,840	28	-
ARIZONA	1	-	-	16	16	17	8	25	.12	1.90	2.02	.95	2.97	713	60	772	1,141	1,683,444	141	-
ARKANSAS	-	1	1	9	11	11	6	17	-	3.10	3.10	1.69	4.80	-	1,775	1,775	379	708,925	65	-
CALIFORNIA	1	-	5	90	95	96	43	139	.04	4.05	4.09	1.83	5.92	256	372	8	2,997	4,695,882	283	-
COLORADO	-	-	2	19	21	21	11	32	-	2.90	2.90	1.52	4.42	-	93	93	1,061	1,449,489	187	-
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	319	458,448	70	-
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	41,275	6	-
FLORIDA	-	-	1	8	9	9	1	10	-	1.53	1.53	.17	1.70	-	101	101	493	1,174,219	51	-
GEORGIA	-	-	-	4	4	4	-	4	-	2.51	2.51	-	2.51	-	24	24	169	318,388	34	-
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	26,210	2	-
IDAHO	-	-	-	1	1	1	1	2	-	.95	.95	.95	1.90	-	1	1	203	210,652	54	-
ILLINOIS	-	-	1	12	13	13	1	14	-	2.00	2.00	.15	2.16	-	753	753	743	1,298,255	179	-
INDIANA	-	-	-	12	12	12	1	13	-	2.13	2.13	.18	2.31	-	113	113	635	1,127,931	150	-
IOWA	-	-	-	12	12	12	3	15	-	2.43	2.43	.61	3.04	-	32	32	720	986,873	157	-
KANSAS	-	-	2	10	12	12	1	13	-	3.26	3.26	.27	3.53	-	215	215	436	735,762	119	-
KENTUCKY	-	-	-	11	11	11	-	11	-	6.53	6.53	-	6.53	-	77	77	185	336,924	29	-
LOUISIANA	1	-	1	9	10	11	1	12	.13	1.27	1.40	.13	1.52	762	28	790	827	1,575,409	106	-
MAINE	-	-	-	2	2	2	-	2	-	1.13	1.13	-	1.13	-	12	12	454	353,171	120	-
MARYLAND	-	-	1	21	22	22	8	30	-	3.76	3.76	1.37	5.12	-	90	90	546	1,170,854	43	-
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	2.97	2.97	-	2.97	-	182	182	475	740,194	120	-
MICHIGAN	-	-	1	16	17	17	8	25	-	2.17	2.17	1.02	3.19	-	50	50	1,278	1,567,059	292	-
MINNESOTA	1	-	-	8	8	9	4	13	.21	1.68	1.89	.84	2.72	1,257	108	1,365	857	954,884	220	-
MISSISSIPPI	-	-	2	8	10	10	3	13	-	1.88	1.88	.56	2.44	-	122	122	533	1,065,884	90	-
MISSOURI	1	-	-	6	6	7	-	7	.30	1.81	2.11	-	2.11	1,811	17	1,829	445	662,460	99	-
MONTANA	-	-	-	5	5	5	1	6	-	2.00	2.00	.40	2.41	-	33	33	403	498,940	86	-
NEBRASKA	1	-	1	6	7	8	1	9	.20	1.40	1.60	.20	1.80	1,199	99	1,297	677	1,000,914	192	-
NEVADA	-	-	1	3	4	4	5	9	-	2.00	2.00	2.49	4.49	-	2,288	2,288	294	400,868	50	-
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	.54	.54	-	.54	-	1	1	232	366,979	45	-
NEW JERSEY	1	-	-	15	15	16	7	23	.18	2.71	2.89	1.27	4.16	1,085	71	1,157	592	1,105,642	74	-
NEW MEXICO	-	-	-	14	14	14	7	21	-	4.55	4.55	2.27	6.82	-	165	165	424	615,932	81	-
NEW YORK	1	-	-	8	8	9	6	15	.12	.97	1.09	.73	1.82	728	23	750	1,486	1,649,405	405	-
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	2.18	2.18	.40	2.58	-	35	35	620	1,009,687	118	-
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	1.11	1.11	.74	1.85	-	21	21	353	541,938	82	-
OHIO	-	-	1	16	17	17	10	27	-	1.61	1.61	.95	2.55	-	52	52	1,135	2,114,088	215	-
OKLAHOMA	2	-	-	8	8	10	2	12	.50	2.01	2.51	.50	3.01	3,008	64	3,072	578	797,773	151	-
OREGON	1	-	-	4	5	6	-	6	.35	1.76	2.11	-	2.11	2,114	159	2,273	428	567,674	76	-
PENNSYLVANIA	2	-	2	22	24	26	1	27	.40	4.82	5.23	.20	5.43	2,412	285	2,697	582	995,197	105	-
PUERTO RICO	-	-	-	3	3	3	-	3	-	2.51	2.51	-	2.51	-	116	116	177	238,687	29	-
RHODE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	104,610	16	-
SOUTH CAROLINA	-	-	-	7	7	7	6	13	-	1.76	1.76	1.51	3.27	-	24	24	389	794,468	62	-
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	1.27	1.27	-	-	-	292	315,411	98	-
TENNESSEE	-	-	-	6	6	6	3	9	-	2.27	2.27	1.13	3.40	-	38	38	279	529,400	52	-
TEXAS	1	-	6	71	77	78	56	134	.04	2.76	2.79	2.00	4.80	215	335	550	2,669	5,589,155	236	-
UTAH	1	-	-	3	3	4	7	11	.32	.96	1.28	2.23	3.51	1,915	36	1,952	543	626,514	94	-
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212	173,322	89	-
VIRGINIA	-	-	-	13	13	13	8	21	-	3.82	3.82	2.35	6.18	-	178	178	344	679,847	48	-
WASHINGTON	-	-	1	5	6	6	6	12	-	1.32	1.32	1.32	2.63	-	25	25	726	911,244	161	-
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	72,285	4	-
WISCONSIN	-	-	-	13	13	13	3	16	-	3.08	3.08	.71	3.79	-	202	202	770	844,574	188	-
WYOMING	-	-	-	2	2	2	1	3	-	.95	.95	.47	1.42	-	2	2	417	423,230	79	-
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	.06	2.41	2.47	1.01	3.48	379	201	580	30,350	47,538,705	5,568	-

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WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY	TOTAL NFDL															
		TOTAL	PARTIAL																	
OFFICE:																				
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	137,176	1	48
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	18,059	-	8
ARIZONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	213,322	-	85
ARKANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	95,869	-	34
CALIFORNIA	-	-	-	1	1	1	-	1	-	.24	.24	-	.24	-	1	1	530	842,877	1	191
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195	225,137	2	97
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	95,795	-	45
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	14,353	-	4
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	200,962	-	36
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	79,234	-	15
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2,054	-	1
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	50,777	-	22
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	193	298,873	2	115
INDIANA	-	-	-	-	-	-	1	1	-	-	-	.67	.67	-	-	-	178	298,331	-	107
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133	185,314	1	87
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	141,809	-	63
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	53,899	-	17
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	172,452	-	56
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	27,653	1	27
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109	188,980	-	36
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	117,356	1	71
MICHIGAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220	331,786	2	117
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	112,750	1	55
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	108,318	-	40
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	86,440	-	56
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	66,631	-	30
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110	136,015	-	63
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	29,802	-	20
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	46,324	-	25
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177	283,003	2	57
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	69,768	1	24
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	310,305	-	154
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	153,192	-	47
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	31,942	1	18
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	292	486,213	-	160
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	131,831	-	70
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	128,570	-	45
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	170,724	1	63
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	54,457	-	21
RHODE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	13,604	-	11
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	94,697	-	27
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	17,051	1	12
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	99,165	-	31
TEXAS	-	-	-	2	2	2	-	2	-	.64	.64	-	.64	-	15	15	336	620,578	1	148
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	41,659	1	25
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	21,673	-	24
VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	136,977	-	22
WASHINGTON	-	-	-	-	-	-	1	1	-	-	-	1.33	1.33	-	-	-	116	150,270	1	57
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5,276	-	2
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	179,309	-	76
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	34,857	-	16
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	.08	.08	.05	.13	-	1	1	5,244	7,613,469	21	2,681

TABLE 4. - INJURY EXPERIENCE BY DEGREE AND WORKTIME FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES			AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS	NUMBER OF OPERATIONS	ASSOCIATED WORK LOCATION
	FATAL	NFDL			TOTAL NFDL	TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL				
		PERMANENT		TEMPORARY																
		TOTAL	PARTIAL																	
GRAND TOTAL OR AVERAGE:																				
ALABAMA	-	-	-	13	13	13	2	15	-	2.46	2.46	.38	2.84	-	51	51	598	1,055,665	88	48
ALASKA	-	-	1	4	5	5	1	6	-	3.05	3.05	.61	3.66	-	310	310	196	327,819	28	8
ARIZONA	1	-	-	16	16	17	8	25	.11	1.69	1.79	.84	2.64	633	53	686	1,340	1,896,716	141	85
ARKANSAS	-	1	1	9	11	11	6	17	-	2.73	2.73	1.49	4.22	-	1,564	1,564	434	804,754	65	34
CALIFORNIA	1	-	5	91	96	97	43	140	.04	3.47	3.50	1.55	5.06	217	316	532	3,527	5,538,789	284	191
COLORADO	-	-	2	19	21	21	11	32	-	2.51	2.51	1.31	3.82	-	81	81	1,256	1,674,615	189	97
CONNECTICUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	388	554,244	70	45
DELAWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	55,628	6	4
FLORIDA	-	-	1	8	9	9	1	10	-	1.31	1.31	.15	1.45	-	86	86	589	1,375,181	51	36
GEORGIA	-	-	-	4	4	4	-	4	-	2.01	2.01	-	2.01	-	19	19	214	397,622	34	15
HAWAII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	28,264	2	1
IDAHO	-	-	-	1	1	1	1	2	-	.77	.77	.77	1.53	-	1	1	245	261,429	54	22
ILLINOIS	-	-	1	12	13	13	1	14	-	1.63	1.63	.13	1.75	-	612	612	936	1,597,128	181	115
INDIANA	-	-	-	12	12	12	2	14	-	1.68	1.68	.28	1.96	-	89	89	813	1,426,262	150	107
IOWA	-	-	-	12	12	12	3	15	-	2.05	2.05	.51	2.56	-	27	27	853	1,172,187	158	87
KANSAS	-	-	2	10	12	12	1	13	-	2.73	2.73	.23	2.96	-	180	180	532	877,571	119	63
KENTUCKY	-	-	-	11	11	11	-	11	-	5.63	5.63	-	5.63	-	66	66	217	390,823	29	17
LOUISIANA	1	-	1	9	10	11	1	12	.11	1.14	1.26	.11	1.37	687	25	712	925	1,747,861	106	56
MAINE	-	-	-	2	2	2	-	2	-	1.05	1.05	-	1.05	-	12	12	490	380,824	121	27
MARYLAND	-	-	1	21	22	22	8	30	-	3.24	3.24	1.18	4.41	-	78	78	655	1,359,834	43	36
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	2.57	2.57	-	2.57	-	157	157	576	857,550	121	71
MICHIGAN	-	-	1	16	17	17	8	25	-	1.79	1.79	.84	2.63	-	41	41	1,498	1,898,845	294	117
MINNESOTA	1	-	-	8	8	9	4	13	.19	1.50	1.69	.75	2.44	1,124	96	1,220	942	1,067,634	221	55
MISSISSIPPI	-	-	2	8	10	10	3	13	-	1.70	1.70	.51	2.21	-	111	111	602	1,174,202	90	40
MISSOURI	1	-	-	6	6	7	-	7	.27	1.60	1.87	-	1.87	1,602	15	1,618	525	748,900	99	56
MONTANA	-	-	-	5	5	5	1	6	-	1.77	1.77	.35	2.12	-	29	29	479	565,571	86	30
NEBRASKA	1	-	1	6	7	8	1	9	.18	1.23	1.41	.18	1.58	1,055	87	1,142	787	1,136,929	192	63
NEVADA	-	-	1	3	4	4	5	9	-	1.86	1.86	2.32	4.18	-	2,129	2,129	321	430,670	50	20
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	48	48	-	48	-	(*)	(*)	267	413,303	45	25
NEW JERSEY	1	-	-	15	15	16	7	23	.14	2.16	2.30	1.01	3.31	864	57	921	769	1,388,645	76	57
NEW MEXICO	-	-	-	14	14	14	7	21	-	4.08	4.08	2.04	6.13	-	148	148	486	685,700	82	24
NEW YORK	1	-	-	8	8	9	6	15	.10	.82	.92	.61	1.53	612	19	632	1,766	1,959,710	405	154
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	1.89	1.89	.34	2.24	-	31	31	731	1,162,879	118	47
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	1.05	1.05	.70	1.74	-	20	20	382	573,880	83	18
OHIO	-	-	1	16	17	17	10	27	-	1.31	1.31	.77	2.08	-	42	42	1,427	2,600,301	215	160
OKLAHOMA	2	-	-	8	8	10	2	12	.43	1.72	2.15	.43	2.58	2,582	55	2,637	680	929,604	151	70
OREGON	1	-	1	4	5	6	-	6	.29	1.44	1.72	-	1.72	1,724	130	1,853	528	696,244	76	45
PENNSYLVANIA	2	-	2	22	24	26	1	27	.34	4.12	4.46	.17	4.65	2,058	243	2,302	697	1,165,921	106	63
PUERTO RICO	-	-	-	3	3	3	-	3	-	2.05	2.05	-	2.05	-	94	94	219	293,144	29	21
RHODE ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	118,214	16	11
SOUTH CAROLINA	-	-	-	7	7	7	6	13	-	1.57	1.57	1.35	2.92	-	21	21	446	889,165	62	27
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	1.20	1.20	-	-	-	306	332,462	99	12
TENNESSEE	-	-	-	6	6	6	3	9	-	1.91	1.91	.95	2.86	-	32	32	339	628,565	52	31
TEXAS	1	-	6	73	79	80	56	136	.03	2.54	2.58	1.80	4.38	193	303	496	3,005	6,209,733	237	148
UTAH	1	-	-	3	3	4	7	11	.30	.90	1.20	2.10	3.29	1,796	34	1,830	586	668,173	95	25
VERMONT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242	194,995	89	24
VIRGINIA	-	-	-	13	13	13	8	21	-	3.18	3.18	1.96	5.14	-	148	148	415	816,824	48	22
WASHINGTON	-	-	1	5	6	6	7	13	-	1.13	1.13	1.32	2.45	-	22	22	842	1,061,514	162	57
WEST VIRGINIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	77,561	4	2
WISCONSIN	-	-	-	13	13	13	3	16	-	2.54	2.54	.59	3.13	-	167	167	905	1,023,883	188	76
WYOMING	-	-	-	2	2	2	1	3	-	.87	.87	.44	1.31	-	2	2	445	458,037	79	16
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	.05	2.09	2.14	.87	3.02	326	174	500	35,594	55,152,174	5,589	2,681

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TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	MDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
OPEN PIT:																	
ALABAMA	-	-	-	8	8	8	2	10	-	-	-	162	162	162	-	20	20
ALASKA	-	-	1	4	5	5	1	6	-	-	300	208	508	508	300	52	102
ARIZONA	1	-	-	16	16	17	8	25	6,000	-	-	502	502	6,502	-	31	382
ARKANSAS	-	1	1	9	11	11	6	17	-	6,000	50	243	6,293	6,293	50	27	572
CALIFORNIA	1	-	5	88	93	94	43	137	6,000	-	6,760	1,957	8,717	14,717	1,352	22	157
COLORADO	-	-	2	19	21	21	10	31	-	-	150	527	677	677	75	28	32
GEORGIA	-	-	-	3	3	3	-	3	-	-	-	30	30	30	-	10	10
IDAHO	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ILLINOIS	-	-	1	10	11	11	-	11	-	-	4,500	334	4,834	4,834	4,500	33	439
INDIANA	-	-	-	12	12	12	1	13	-	-	-	636	636	636	-	53	53
IOWA	-	-	-	5	5	5	-	5	-	-	-	65	65	65	-	13	13
KANSAS	-	-	1	1	2	2	-	2	-	-	400	44	444	444	400	44	222
KENTUCKY	-	-	-	5	5	5	-	5	-	-	-	66	66	66	-	13	13
LOUISIANA	-	-	-	2	2	2	1	3	-	-	-	74	74	74	-	37	37
MAINE	-	-	-	2	2	2	-	2	-	-	-	22	22	22	-	11	11
MARYLAND	-	-	1	21	22	22	8	30	-	-	50	478	528	528	50	23	24
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	-	350	324	674	674	175	36	61
MICHIGAN	-	-	1	16	17	17	8	25	-	-	50	341	391	391	50	21	23
MINNESOTA	1	-	-	8	8	9	4	13	6,000	-	-	515	515	6,515	-	64	724
MISSISSIPPI	-	-	-	6	6	6	3	9	-	-	-	84	84	84	-	14	14
MISSOURI	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
MONTANA	-	-	-	5	5	5	1	6	-	-	-	82	82	82	-	16	16
NEBRASKA	-	-	-	1	1	1	-	1	-	-	-	23	23	23	-	23	23
NEVADA	-	-	1	3	4	4	5	9	-	-	4,500	85	4,585	4,585	4,500	28	1,146
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
NEW JERSEY	1	-	-	2	2	3	-	3	6,000	-	-	85	85	6,085	-	42	2,028
NEW MEXICO	-	-	-	14	14	14	7	21	-	-	-	508	508	508	-	36	36
NEW YORK	1	-	-	8	8	9	6	15	6,000	-	-	189	189	6,189	-	24	688
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	-	-	179	179	179	-	16	16
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	-	50	8	58	58	50	4	19
OHIO	-	-	1	15	16	16	9	25	-	-	50	496	546	546	50	33	34
OKLAHOMA	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
OREGON	-	-	1	4	5	5	-	5	-	-	400	52	452	452	400	13	90
PENNSYLVANIA	2	-	-	13	13	15	1	16	12,000	-	-	418	418	12,418	-	32	828
PUERTO RICO	-	-	-	2	2	2	-	2	-	-	-	128	128	128	-	64	64
SOUTH CAROLINA	-	-	-	6	6	6	6	12	-	-	-	83	83	83	-	14	14
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	4	4	4	3	7	-	-	-	78	78	78	-	20	20
TEXAS	-	-	4	61	65	65	49	114	-	-	6,400	2,339	8,739	8,739	1,600	38	134
UTAH	1	-	-	3	3	4	7	11	6,000	-	-	114	114	6,114	-	38	1,528
VIRGINIA	-	-	-	13	13	13	8	21	-	-	-	604	604	604	-	46	46
WASHINGTON	-	-	1	5	6	6	6	12	-	-	50	65	115	115	50	13	19
WISCONSIN	-	-	-	13	13	13	3	16	-	-	-	854	854	854	-	66	66
WYOMING	-	-	-	2	2	2	1	3	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
DREDGE:																	
ALABAMA	-	-	-	5	5	5	-	5	-	-	-	108	108	108	-	22	22
CALIFORNIA	-	-	-	2	2	2	-	2	-	-	-	26	26	26	-	13	13
COLORADO	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	1	8	9	9	1	10	-	-	450	142	592	592	450	18	66
GEORGIA	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
ILLINOIS	-	-	-	2	2	2	1	3	-	-	-	56	56	56	-	28	28
IOWA	-	-	-	7	7	7	3	10	-	-	-	92	92	92	-	13	13
KANSAS	-	-	1	9	10	10	1	11	-	-	240	106	346	346	240	12	35
KENTUCKY	-	-	-	6	6	6	-	6	-	-	-	63	63	63	-	10	10
LOUISIANA	1	-	1	7	8	9	-	9	6,000	-	50	95	145	6,145	50	14	683
MISSISSIPPI	-	-	2	2	4	4	-	4	-	-	475	90	565	565	238	45	141
MISSOURI	1	-	-	5	5	6	-	6	6,000	-	-	56	56	6,056	-	11	1,009
NEBRASKA	1	-	1	5	6	7	1	8	6,000	-	270	200	470	6,470	270	40	924
NEW JERSEY	-	-	-	13	13	13	7	20	-	-	-	309	309	309	-	24	24
OHIO	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
OKLAHOMA	2	-	-	6	6	8	1	9	12,000	-	-	252	252	12,252	-	42	1,532
OREGON	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
PENNSYLVANIA	-	-	2	9	11	11	-	11	-	-	100	900	1,000	1,000	50	100	91
PUERTO RICO	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
SOUTH CAROLINA	-	-	-	1	1	1	-	1	-	-	-	11	11	11	-	11	11
TENNESSEE	-	-	-	2	2	2	-	2	-	-	-	22	22	22	-	11	11
TEXAS	1	-	2	10	12	13	7	20	6,000	-	450	172	622	6,622	225	17	509
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393

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TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
ALABAMA	-	-	-	13	13	13	2	15	-	-	-	270	270	270	-	21	21
ALASKA	-	-	1	4	5	5	1	6	-	-	300	208	508	508	300	52	102
ARIZONA	1	-	-	16	16	17	8	25	6,000	-	-	502	502	6,502	-	31	382
ARKANSAS	-	1	1	9	11	11	6	17	-	6,000	50	243	6,293	6,293	50	27	572
CALIFORNIA	1	-	5	90	95	96	43	139	6,000	-	6,760	1,983	8,743	14,743	1,352	22	154
COLORADO	-	-	2	19	21	21	11	32	-	-	150	527	677	677	75	28	32
FLORIDA	-	-	1	8	9	9	1	10	-	-	450	142	592	592	450	18	66
GEORGIA	-	-	-	4	4	4	-	4	-	-	-	38	38	38	-	10	10
IDAHO	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ILLINOIS	-	-	1	12	13	13	1	14	-	-	4,500	390	4,890	4,890	4,500	32	376
INDIANA	-	-	-	12	12	12	1	13	-	-	-	636	636	636	-	53	53
IOWA	-	-	-	12	12	12	3	15	-	-	-	157	157	157	-	13	13
KANSAS	-	-	2	10	12	12	1	13	-	-	640	150	790	790	320	15	66
KENTUCKY	-	-	-	11	11	11	-	11	-	-	-	129	129	129	-	12	12
LOUISIANA	1	-	1	9	10	11	1	12	6,000	-	50	169	219	6,219	50	19	565
MAINE	-	-	-	2	2	2	-	2	-	-	-	22	22	22	-	11	11
MARYLAND	-	-	1	21	22	22	8	30	-	-	50	478	528	528	50	23	24
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	-	350	324	674	674	175	36	61
MICHIGAN	-	-	1	16	17	17	8	25	-	-	50	341	391	391	50	21	23
MINNESOTA	1	-	-	8	8	9	4	13	6,000	-	-	515	515	6,515	-	64	724
MISSISSIPPI	-	-	2	8	10	10	3	13	-	-	475	174	649	649	238	22	65
MISSOURI	1	-	-	6	6	7	-	7	6,000	-	-	57	57	6,057	-	10	865
MONTANA	-	-	-	5	5	5	1	6	-	-	-	82	82	82	-	16	16
NEBRASKA	1	-	1	6	7	8	1	9	6,000	-	270	223	493	6,493	270	37	812
NEVADA	-	-	1	3	4	4	5	9	-	-	4,500	85	4,585	4,585	4,500	28	1,146
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
NEW JERSEY	1	-	-	15	15	16	7	23	6,000	-	-	394	394	6,394	-	26	400
NEW MEXICO	-	-	-	14	14	14	7	21	-	-	-	508	508	508	-	36	36
NEW YORK	1	-	-	8	8	9	6	15	6,000	-	-	189	189	6,189	-	24	688
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	-	-	179	179	179	-	16	16
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	-	50	8	58	58	50	4	19
OHIO	-	-	1	16	17	17	10	27	-	-	50	497	547	547	50	31	32
OKLAHOMA	2	-	-	8	8	10	2	12	12,000	-	-	255	255	12,255	-	32	1,226
OREGON	1	-	1	4	5	6	-	6	6,000	-	400	52	452	6,452	400	13	1,075
PENNSYLVANIA	2	-	2	22	24	26	1	27	12,000	-	100	1,318	1,418	13,418	50	60	516
PUERTO RICO	-	-	-	3	3	3	-	3	-	-	-	138	138	138	-	46	46
SOUTH CAROLINA	-	-	-	7	7	7	6	13	-	-	-	94	94	94	-	13	13
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	6	6	6	3	9	-	-	-	100	100	100	-	17	17
TEXAS	1	-	6	71	77	78	56	134	6,000	-	6,850	2,511	9,361	15,361	1,142	35	197
UTAH	1	-	-	3	3	4	7	11	6,000	-	-	114	114	6,114	-	38	1,528
VIRGINIA	-	-	-	13	13	13	8	21	-	-	-	604	604	604	-	46	46
WASHINGTON	-	-	1	5	6	6	6	12	-	-	50	65	115	115	50	13	19
WISCONSIN	-	-	-	13	13	13	3	16	-	-	-	854	854	854	-	66	66
WYOMING	-	-	-	2	2	2	1	3	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
CALIFORNIA	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
INDIANA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	-	-	-	2	2	2	-	2	-	-	-	47	47	47	-	24	24
WASHINGTON	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17

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TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:																	
ALABAMA	-	-	-	13	13	13	2	15	-	-	-	270	270	270	-	21	21
ALASKA	-	-	1	4	5	5	1	6	-	-	300	208	508	508	300	52	102
ARIZONA	1	-	-	16	16	17	8	25	6,000	-	-	502	502	6,502	-	31	382
ARKANSAS	-	1	1	9	11	11	6	17	-	6,000	50	243	6,293	6,293	50	27	572
CALIFORNIA	1	-	5	91	96	97	43	140	6,000	-	6,760	1,986	8,746	14,746	1,352	22	152
COLORADO	-	-	2	19	21	21	11	32	-	-	150	527	677	677	75	28	32
FLORIDA	-	-	1	8	9	9	1	10	-	-	450	142	592	592	450	18	66
GEORGIA	-	-	-	4	4	4	-	4	-	-	-	38	38	38	-	10	10
IDAHO	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
ILLINOIS	-	-	1	12	13	13	1	14	-	-	4,500	390	4,890	4,890	4,500	32	376
INDIANA	-	-	-	12	12	12	2	14	-	-	-	636	636	636	-	53	53
IOWA	-	-	-	12	12	12	3	15	-	-	-	157	157	157	-	13	13
KANSAS	-	-	2	10	12	12	1	13	-	-	640	150	790	790	320	15	66
KENTUCKY	-	-	-	11	11	11	-	11	-	-	-	129	129	129	-	12	12
LOUISIANA	1	-	1	9	10	11	1	12	6,000	-	50	169	219	6,219	50	19	565
MAINE	-	-	-	2	2	2	-	2	-	-	-	22	22	22	-	11	11
MARYLAND	-	-	1	21	22	22	8	30	-	-	50	478	528	528	50	23	24
MASSACHUSETTS	-	-	2	9	11	11	-	11	-	-	350	324	674	674	175	36	61
MICHIGAN	-	-	1	16	17	17	8	25	-	-	50	341	391	391	50	21	23
MINNESOTA	1	-	-	8	8	9	4	13	6,000	-	-	515	515	6,515	-	64	724
MISSISSIPPI	-	-	2	8	10	10	3	13	-	-	475	174	649	649	238	22	65
MISSOURI	1	-	-	6	6	7	-	7	6,000	-	-	57	57	6,057	-	10	865
MONTANA	-	-	-	5	5	5	1	6	-	-	-	82	82	82	-	16	16
NEBRASKA	1	-	1	6	7	8	1	9	6,000	-	270	223	493	6,493	270	37	812
NEVADA	-	-	1	3	4	4	5	9	-	-	4,500	85	4,585	4,585	4,500	28	1,146
NEW HAMPSHIRE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
NEW JERSEY	1	-	-	15	15	16	7	23	6,000	-	-	394	394	6,394	-	26	400
NEW MEXICO	-	-	-	14	14	14	7	21	-	-	-	508	508	508	-	36	36
NEW YORK	1	-	-	8	8	9	6	15	6,000	-	-	189	189	6,189	-	24	688
NORTH CAROLINA	-	-	-	11	11	11	2	13	-	-	-	179	179	179	-	16	16
NORTH DAKOTA	-	-	1	2	3	3	2	5	-	-	50	8	58	58	50	4	19
OHIO	-	-	1	16	17	17	10	27	-	-	50	497	547	547	50	31	32
OKLAHOMA	2	-	-	8	8	10	2	12	12,000	-	-	255	255	12,255	-	32	1,226
OREGON	1	-	1	4	5	6	-	6	6,000	-	400	52	452	6,452	400	13	1,075
PENNSYLVANIA	2	-	2	22	24	26	1	27	12,000	-	100	1,318	1,418	13,418	50	60	516
PUERTO RICO	-	-	-	3	3	3	-	3	-	-	-	138	138	138	-	46	46
SOUTH CAROLINA	-	-	-	7	7	7	6	13	-	-	-	94	94	94	-	13	13
SOUTH DAKOTA	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	6	6	6	3	9	-	-	-	100	100	100	-	17	17
TEXAS	1	-	6	73	79	80	56	136	6,000	-	6,850	2,558	9,408	15,408	1,142	35	193
UTAH	1	-	-	3	3	4	7	11	6,000	-	-	114	114	6,114	-	38	1,528
VIRGINIA	-	-	-	13	13	13	8	21	-	-	-	604	604	604	-	46	46
WASHINGTON	-	-	1	5	6	6	7	13	-	-	50	65	115	115	50	13	19
WISCONSIN	-	-	-	13	13	13	3	16	-	-	-	854	854	854	-	66	66
WYOMING	-	-	-	2	2	2	1	3	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

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TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
SURFACE MINES:																
OPEN PIT:																
EAR	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
EYE	-	-	1	22	23	23	31	54	-	.12	.12	.16	.27	-	10	10
JAW	-	-	-	-	-	-	2	2	-	-	-	.01	.01	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	2	2	2	7	9	-	.01	.01	.04	.05	-	(*)	(*)
NOSE	-	-	-	1	1	1	2	3	-	.01	.01	.01	.02	-	(*)	(*)
SCALP	-	-	-	2	2	2	1	3	-	.01	.01	.01	.02	-	(*)	(*)
SKULL	1	-	-	1	1	2	-	2	.01	.01	.01	-	.01	30	1	31
FACE, NEC	-	-	-	3	3	3	7	10	-	.02	.02	.04	.05	-	(*)	(*)
HEAD, NEC	-	-	-	11	11	11	12	23	-	.06	.06	.06	.12	-	1	1
NECK	1	-	-	6	6	7	3	10	.01	.03	.04	.02	.05	30	(*)	31
UPPER ARM	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
ELBOW	-	-	-	9	9	9	2	11	-	.05	.05	.01	.06	-	(*)	(*)
FOREARM	-	-	1	5	6	6	6	12	-	.03	.03	.03	.06	-	19	19
WRIST	-	-	-	11	11	11	6	17	-	.06	.06	.03	.09	-	1	1
HAND	-	-	-	19	19	19	14	33	-	.10	.10	.07	.17	-	2	2
FINGER(S)	-	-	8	36	44	44	52	96	-	.22	.22	.26	.49	-	16	16
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	.10	.10	.03	.13	-	66	66
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	.01	.01	-	-	-
BACK	-	-	-	94	94	94	15	109	-	.48	.48	.08	.55	-	13	13
CHEST	-	-	-	10	10	10	6	16	-	.05	.05	.03	.08	-	(*)	(*)
PELVIC REGION	1	-	10	6	16	17	4	21	.01	.08	.09	.02	.11	30	3	34
SHOULDER(S)	-	-	-	10	10	10	3	13	-	.05	.05	.02	.07	-	1	1
TRUNK, NEC	-	-	-	5	5	5	3	8	-	.03	.03	.02	.04	-	2	2
THIGH	-	-	-	5	5	5	3	8	-	.03	.03	.02	.04	-	(*)	(*)
KNEE	-	-	-	32	32	32	4	36	-	.16	.16	.02	.18	-	4	4
LOWER LEG	-	-	1	7	8	8	5	13	-	.04	.04	.03	.07	-	16	16
ANKLE	-	-	-	19	19	19	4	23	-	.10	.10	.02	.12	-	2	2
FOOT	-	-	-	20	20	20	3	23	-	.10	.10	.02	.12	-	4	4
TOE(S)		-	-	4	4	4	1	5	-	.02	.02	.01	.03	-	(*)	(*)
LOWER EXTREMITIES, NEC	-	-	-	21	21	21	4	25	-	.11	.11	.02	.13	-	4	4
BODY SYSTEMS	1	-	-	4	4	5	1	6	.01	.02	.03	.01	.03	30	3	34
MULTIPLE PARTS OF BODY	4	1	-	52	53	57	7	64	.02	.27	.29	.04	.32	122	49	170
UNCLASSIFIED	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	.04	2.34	2.38	1.09	3.47	243	218	461

TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
DREDGE:																
EAR	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
EYE	-	-	-	7	7	7	5	12	-	.17	.17	.12	.30	-	(•)	(•)
MOUTH/TEETH/TONGUE	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(•)	(•)
NOSE	-	-	-	1	1	1	1	2	-	.02	.02	.02	.05	-	(•)	(•)
SKULL	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	1	1
FACE, NEC	-	-	-	-	-	-	2	2	-	-	-	.05	.05	-	-	-
HEAD, NEC	1	-	-	4	4	5	2	7	.02	.10	.12	.05	.17	149	1	150
NECK	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(•)	(•)
ELBOW	-	-	-	3	3	3	-	3	-	.07	.07	-	.07	-	(•)	(•)
WRIST	-	-	-	-	-	-	4	4	-	-	-	.10	.10	-	-	-
HAND	-	-	-	4	4	4	-	4	-	.10	.10	-	.10	-	2	2
FINGER(S)	-	-	5	6	11	11	3	14	-	.27	.27	.07	.35	-	37	37
BACK	-	-	-	18	18	18	3	21	-	.45	.45	.07	.52	-	14	14
CHEST	-	-	-	2	2	2	1	3	-	.05	.05	.02	.07	-	(•)	(•)
PELVIC REGION	-	-	4	4	8	8	-	8	-	.20	.20	-	.20	-	7	7
SHOULDER(S)	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(•)	(•)
TRUNK, NEC	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	(•)	(•)
THIGH	-	-	-	4	4	4	-	4	-	.10	.10	-	.10	-	2	2
KNEE	-	-	-	9	9	9	-	9	-	.22	.22	-	.22	-	3	3
LOWER LEG	-	-	-	7	7	7	-	7	-	.17	.17	-	.17	-	5	5
ANKLE	-	-	-	10	10	10	-	10	-	.25	.25	-	.25	-	13	13
FOOT	-	-	-	3	3	3	-	3	-	.07	.07	-	.07	-	2	2
TOE(S)	-	-	1	1	2	2	-	2	-	.05	.05	-	.05	-	11	11
LOWER EXTREMITIES, NEC	-	-	-	5	5	5	1	6	-	.12	.12	.02	.15	-	3	3
BODY SYSTEMS	4	-	-	2	2	6	-	6	.10	.05	.15	-	.15	595	1	596
MULTIPLE PARTS OF BODY	2	-	-	6	6	8	-	8	.05	.15	.20	-	.20	297	15	312
UNCLASSIFIED	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	1	1
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	.17	2.78	2.95	.59	3.54	1,041	118	1,159

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TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES		NFDL							
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, MINING:																
EAR	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)
EYE	-	-	1	29	30	30	36	66	-	.13	.13	.15	.28	-	8	8
JAW	-	-	-	-	-	-	2	2	-	-	-	.01	.01	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	3	3	3	7	10	-	.01	.01	.03	.04	-	(*)	(*)
NOSE	-	-	-	2	2	2	3	5	-	.01	.01	.01	.02	-	(*)	(*)
SCALP	-	-	-	2	2	2	1	3	-	.01	.01	(*)	.01	-	(*)	(*)
SKULL	1	-	-	2	2	3	-	3	(*)	.01	.01	-	.01	25	1	26
FACE, NEC	-	-	-	3	3	3	9	12	-	.01	.01	.04	.05	-	(*)	(*)
HEAD, NEC	1	-	-	15	15	16	14	30	(*)	.06	.07	.06	.13	25	1	26
NECK	1	-	-	7	7	8	3	11	(*)	.03	.03	.01	.05	25	(*)	25
UPPER ARM	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
ELBOW	-	-	-	12	12	12	2	14	-	.05	.05	.01	.06	-	(*)	(*)
FOREARM	-	-	1	5	6	6	6	12	-	.03	.03	.03	.05	-	16	16
WRIST	-	-	-	11	11	11	10	21	-	.05	.05	.04	.09	-	1	1
HAND	-	-	-	23	23	23	14	37	-	.10	.10	.06	.16	-	2	2
FINGER(S)	-	-	13	42	55	55	55	110	-	.23	.23	.23	.46	-	20	20
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	.08	.08	.03	.11	-	55	55
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	-	-
BACK	-	-	-	112	112	112	18	130	-	.47	.47	.08	.55	-	13	13
CHEST	-	-	-	12	12	12	7	19	-	.05	.05	.03	.08	-	(*)	(*)
PELVIC REGION	1	-	14	10	24	25	4	29	(*)	.10	.11	.02	.12	25	4	29
SHOULDER(S)	-	-	-	11	11	11	3	14	-	.05	.05	.01	.06	-	1	1
TRUNK, NEC	-	-	-	6	6	6	3	9	-	.03	.03	.01	.04	-	2	2
THIGH	-	-	-	9	9	9	3	12	-	.04	.04	.01	.05	-	1	1
KNEE	-	-	-	41	41	41	4	45	-	.17	.17	.02	.19	-	4	4
LOWER LEG	-	-	1	14	15	15	5	20	-	.06	.06	.02	.08	-	14	14
ANKLE	-	-	-	29	29	29	4	33	-	.12	.12	.02	.14	-	4	4
FOOT	-	-	-	23	23	23	3	26	-	.10	.10	.01	.11	-	4	4
TOE(S)	-	-	1	5	6	6	1	7	-	.03	.03	(*)	.03	-	2	2
LOWER EXTREMITIES, NEC	-	-	-	26	26	26	5	31	-	.11	.11	.02	.13	-	4	4
BODY SYSTEMS	5	-	-	6	6	11	1	12	.02	.03	.05	(*)	.05	126	3	129
MULTIPLE PARTS OF BODY	6	1	-	58	59	65	7	72	.03	.25	.27	.03	.30	151	43	194
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	.01	.01	-	.01	-	(*)	(*)
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	.06	2.41	2.47	1.01	3.48	379	201	580
OFFICE:																
FINGER(S)	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
BACK	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	1	1
KNEE	-	-	-	1	1	1	1	2	-	.03	.03	.03	.05	-	(*)	(*)
ANKLE	-	-	-	-	-	-	1	1	-	-	-	.03	.03	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	.08	.08	.05	.13	-	1	1

TABLE 6. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
GRAND TOTAL OR AVERAGE:																
EAR	-	-	-	1	1	1	2	3	-	(*)	(*)	.01	.01	-	(*)	(*)
EYE	-	-	1	29	30	30	36	66	-	.11	.11	.13	.24	-	7	7
JAW	-	-	-	-	-	-	2	2	-	-	-	.01	.01	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	3	3	3	7	10	-	.01	.01	.03	.04	-	(*)	(*)
NOSE	-	-	-	2	2	2	3	5	-	.01	.01	.01	.02	-	(*)	(*)
SCALP	-	-	-	2	2	2	1	3	-	.01	.01	(*)	.01	-	(*)	(*)
SKULL	1	-	-	2	2	3	-	3	(*)	.01	.01	-	.01	22	1	23
FACE, NEC	-	-	-	3	3	3	9	12	-	.01	.01	.03	.04	-	(*)	(*)
HEAD, NEC	1	-	-	15	15	16	14	30	(*)	.05	.06	.05	.11	22	1	22
NECK	1	-	-	7	7	8	3	11	(*)	.03	.03	.01	.04	22	(*)	22
UPPER ARM	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
ELBOW	-	-	-	12	12	12	2	14	-	.04	.04	.01	.05	-	(*)	(*)
FOREARM	-	-	1	5	6	6	6	12	-	.02	.02	.02	.04	-	14	14
WRIST	-	-	-	11	11	11	10	21	-	.04	.04	.04	.08	-	1	1
HAND	-	-	-	23	23	23	14	37	-	.08	.08	.05	.13	-	1	1
FINGER(S)	-	-	13	43	56	56	55	111	-	.20	.20	.20	.40	-	17	17
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	.07	.07	.02	.09	-	48	48
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	(*)	(*)	-	-	-
BACK	-	-	-	113	113	113	18	131	-	.41	.41	.07	.48	-	11	11
CHEST	-	-	-	12	12	12	7	19	-	.04	.04	.03	.07	-	(*)	(*)
PELVIC REGION	1	-	14	10	24	25	4	29	(*)	.09	.09	.01	.11	22	3	25
SHOULDER(S)	-	-	-	11	11	11	3	14	-	.04	.04	.01	.05	-	1	1
TRUNK, NEC	-	-	-	6	6	6	3	9	-	.02	.02	.01	.03	-	2	2
THIGH	-	-	-	9	9	9	3	12	-	.03	.03	.01	.04	-	1	1
KNEE	-	-	-	42	42	42	5	47	-	.15	.15	.02	.17	-	3	3
LOWER LEG	-	-	1	14	15	15	5	20	-	.05	.05	.02	.07	-	12	12
ANKLE	-	-	-	29	29	29	5	34	-	.11	.11	.02	.12	-	3	3
FOOT	-	-	-	23	23	23	3	26	-	.08	.08	.01	.09	-	3	3
TOE(S)	-	-	1	5	6	6	1	7	-	.02	.02	(*)	.03	-	2	2
LOWER EXTREMITIES, NEC	-	-	-	26	26	26	5	31	-	.09	.09	.02	.11	-	3	3
BODY SYSTEMS	5	-	-	6	6	11	1	12	.02	.02	.04	(*)	.04	109	2	111
MULTIPLE PARTS OF BODY	6	1	-	58	59	65	7	72	.02	.21	.24	.03	.26	131	37	168
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	.01	.01	-	.01	-	(*)	(*)
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	.05	2.09	2.14	.87	3.02	326	174	500

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TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES		NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL			FATAL	PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL						TOTAL	PARTIAL						
SURFACE MINES:																
OPEN PIT:																
EAR	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
EYE	-	-	1	22	23	23	31	54	-	-	1,800	106	1,906	1,906	1,800	5	83
JAW	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	2	2	2	7	9	-	-	-	5	5	5	-	2	2
NOSE	-	-	-	1	1	1	2	3	-	-	-	1	1	1	-	1	1
SCALP	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
SKULL	1	-	-	1	1	2	-	2	6,000	-	-	181	181	6,181	-	181	3,090
FACE, NEC	-	-	-	3	3	3	7	10	-	-	-	21	21	21	-	7	7
HEAD, NEC	-	-	-	11	11	11	12	23	-	-	-	140	140	140	-	13	13
NECK	1	-	-	6	6	7	3	10	6,000	-	-	48	48	6,048	-	8	864
UPPER ARM	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW	-	-	-	9	9	9	2	11	-	-	-	53	53	53	-	6	6
FOREARM	-	-	1	5	6	6	6	12	-	-	3,600	182	3,782	3,782	3,600	36	630
WRIST	-	-	-	11	11	11	6	17	-	-	-	177	177	177	-	16	16
HAND	-	-	-	19	19	19	14	33	-	-	-	313	313	313	-	16	16
FINGER(S)	-	-	8	36	44	44	52	96	-	-	2,560	686	3,246	3,246	320	19	74
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	-	12,600	503	13,103	13,103	4,200	31	690
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	94	94	94	15	109	-	-	-	2,503	2,503	2,503	-	27	27
CHEST	-	-	-	10	10	10	6	16	-	-	-	87	87	87	-	9	9
PELVIC REGION	1	-	10	6	16	17	4	21	6,000	-	500	157	657	6,657	50	26	392
SHOULDER(S)	-	-	-	10	10	10	3	13	-	-	-	146	146	146	-	15	15
TRUNK, NEC	-	-	-	5	5	5	3	8	-	-	-	410	410	410	-	82	82
THIGH	-	-	-	5	5	5	3	8	-	-	-	89	89	89	-	18	18
KNEE	-	-	-	32	32	32	4	36	-	-	-	746	746	746	-	23	23
LOWER LEG	-	-	1	7	8	8	5	13	-	-	3,000	207	3,207	3,207	3,000	30	401
ANKLE	-	-	-	19	19	19	4	23	-	-	-	418	418	418	-	22	22
FOOT	-	-	-	20	20	20	3	23	-	-	-	807	807	807	-	40	40
TOE(S)	-	-	-	4	4	4	1	5	-	-	-	28	28	28	-	7	7
LOWER EXTREMITIES, NEC	-	-	-	21	21	21	4	25	-	-	-	752	752	752	-	36	36
BODY SYSTEMS	1	-	-	4	4	5	1	6	6,000	-	-	616	616	6,616	-	154	1,323
MULTIPLE PARTS OF BODY	4	1	-	52	53	57	7	64	24,000	6,000	-	3,588	9,588	33,588	-	69	589
UNCLASSIFIED	-	-	-	1	1	1	-	1	-	-	-	15	15	15	-	15	15
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
DREDGE:																	
EAR	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
EYE	-	-	-	7	7	7	5	12	-	-	-	12	12	12	-	2	2
MOUTH/TEETH/TONGUE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
NOSE	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SKULL	-	-	-	1	1	1	-	1	-	-	-	54	54	54	-	54	54
FACE, NEC	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
HEAD, NEC	1	-	-	4	4	5	2	7	6,000	-	-	35	35	6,035	-	9	1,207
NECK	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
ELBOW	-	-	-	3	3	3	-	3	-	-	-	13	13	13	-	4	4
WRIST	-	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-
HAND	-	-	-	4	4	4	-	4	-	-	-	89	89	89	-	22	22
FINGER(S)	-	-	5	6	11	11	3	14	-	-	1,385	92	1,477	1,477	277	15	134
BACK	-	-	-	18	18	18	3	21	-	-	-	545	545	545	-	30	30
CHEST	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2
PELVIC REGION	-	-	4	4	8	8	-	8	-	-	200	102	302	302	50	26	38
SHOULDER(S)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
TRUNK, NEC	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
THIGH	-	-	-	4	4	4	-	4	-	-	-	66	66	66	-	16	16
KNEE	-	-	-	9	9	9	-	9	-	-	-	116	116	116	-	13	13
LOWER LEG	-	-	-	7	7	7	-	7	-	-	-	187	187	187	-	27	27
ANKLE	-	-	-	10	10	10	-	10	-	-	-	526	526	526	-	53	53
FOOT	-	-	-	3	3	3	-	3	-	-	-	83	83	83	-	28	28
TOE(S)	-	-	1	1	2	2	-	2	-	-	450	5	455	455	450	5	228
LOWER EXTREMITIES, NEC	-	-	-	5	5	5	1	6	-	-	-	101	101	101	-	20	20
BODY SYSTEMS	4	-	-	2	2	6	-	6	24,000	-	-	36	36	24,036	-	16	4,006
MULTIPLE PARTS OF BODY	2	-	-	6	6	8	-	8	12,000	-	-	603	603	12,603	-	100	1,575
UNCLASSIFIED	-	-	-	1	1	1	-	1	-	-	-	29	29	29	-	29	29
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393

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TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL			TOTAL NFDL	TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL			TOTAL NFDL	TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY						PERMANENT		TEMPORARY					
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
EAR	-	-	-	1	1	1	2	3	-	-	-	8	8	8	-	8	8
EYE	-	-	1	29	30	30	36	66	-	-	1,800	118	1,918	1,918	1,800	4	64
JAW	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	3	3	3	7	10	-	-	-	6	6	6	-	2	2
NOSE	-	-	-	2	2	2	3	5	-	-	-	2	2	2	-	1	1
SCALP	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
SKULL	1	-	-	2	2	3	-	3	6,000	-	-	235	235	6,235	-	118	2,078
FACE, NEC	-	-	-	3	3	3	9	12	-	-	-	21	21	21	-	7	7
HEAD, NEC	1	-	-	15	15	16	14	30	6,000	-	-	175	175	6,175	-	12	386
NECK	1	-	-	7	7	8	3	11	6,000	-	-	52	52	6,052	-	7	756
UPPER ARM	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW	-	-	-	12	12	12	2	14	-	-	-	66	66	66	-	6	6
FOREARM	-	-	1	5	6	6	6	12	-	-	3,600	182	3,782	3,782	3,600	36	630
WRIST	-	-	-	11	11	11	10	21	-	-	-	177	177	177	-	16	16
HAND	-	-	-	23	23	23	14	37	-	-	-	402	402	402	-	17	17
FINGER(S)	-	-	13	42	55	55	55	110	-	-	3,945	778	4,723	4,723	303	19	86
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	-	12,600	503	13,103	13,103	4,200	31	690
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	112	112	112	18	130	-	-	-	3,048	3,048	3,048	-	27	27
CHEST	-	-	-	12	12	12	7	19	-	-	-	91	91	91	-	8	8
PELVIC REGION	1	-	14	10	24	25	4	29	6,000	-	700	259	959	6,959	50	26	278
SHOULDER(S)	-	-	-	11	11	11	3	14	-	-	-	151	151	151	-	14	14
TRUNK, NEC	-	-	-	6	6	6	3	9	-	-	-	420	420	420	-	70	70
THIGH	-	-	-	9	9	9	3	12	-	-	-	155	155	155	-	17	17
KNEE	-	-	-	41	41	41	4	45	-	-	-	862	862	862	-	21	21
LOWER LEG	-	-	1	14	15	15	5	20	-	-	3,000	394	3,394	3,394	3,000	28	226
ANKLE	-	-	-	29	29	29	4	33	-	-	-	944	944	944	-	33	33
FOOT	-	-	-	23	23	23	3	26	-	-	-	890	890	890	-	39	39
TOE(S)	-	-	1	5	6	6	1	7	-	-	450	33	483	483	450	7	80
LOWER EXTREMITIES, NEC	-	-	-	26	26	26	5	31	-	-	-	853	853	853	-	33	33
BODY SYSTEMS	5	-	-	6	6	11	1	12	30,000	-	-	652	652	30,652	-	109	2,787
MULTIPLE PARTS OF BODY	6	1	-	58	59	65	7	72	36,000	6,000	-	4,191	10,191	46,191	-	72	711
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
FINGER(S)	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
BACK	-	-	-	1	1	1	-	1	-	-	-	33	33	33	-	33	33
KNEE	-	-	-	1	1	1	1	2	-	-	-	14	14	14	-	14	14
ANKLE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17

TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:																	
EAR	-	-	-	1	1	1	2	3	-	-	-	8	8	8	-	8	8
EYE	-	-	1	29	30	30	36	66	-	-	1,800	118	1,918	1,918	1,800	4	64
JAW	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	3	3	3	7	10	-	-	-	6	6	6	-	2	2
NOSE	-	-	-	2	2	2	3	5	-	-	-	2	2	2	-	1	1
SCALP	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
SKULL	1	-	-	2	2	3	-	3	6,000	-	-	235	235	6,235	-	118	2,078
FACE, NEC	-	-	-	3	3	3	9	12	-	-	-	21	21	21	-	7	7
HEAD, NEC	1	-	-	15	15	16	14	30	6,000	-	-	175	175	6,175	-	12	386
NECK	1	-	-	7	7	8	3	11	6,000	-	-	52	52	6,052	-	7	756
UPPER ARM	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW	-	-	-	12	12	12	2	14	-	-	-	66	66	66	-	6	6
FOREARM	-	-	1	5	6	6	6	12	-	-	-	3,600	182	3,782	3,782	3,600	36	630
WRIST	-	-	-	11	11	11	10	21	-	-	-	-	177	177	177	-	16	16
HAND	-	-	-	23	23	23	14	37	-	-	-	-	402	402	402	-	17	17
FINGER(S)	-	-	13	43	56	56	55	111	-	-	-	3,945	781	4,726	4,726	303	18	84
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	-	-	12,600	503	13,103	13,103	4,200	31	690
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
BACK	-	-	-	113	113	113	18	131	-	-	-	-	3,081	3,081	3,081	-	27	27
CHEST	-	-	-	12	12	12	7	19	-	-	-	-	91	91	91	-	8	8
PELVIC REGION	1	-	14	10	24	25	4	29	6,000	-	-	700	259	959	6,959	50	26	278
SHOULDER(S)	-	-	-	11	11	11	3	14	-	-	-	-	151	151	151	-	14	14
TRUNK, NEC	-	-	-	6	6	6	3	9	-	-	-	-	420	420	420	-	70	70
THIGH	-	-	-	9	9	9	3	12	-	-	-	-	155	155	155	-	17	17
KNEE	-	-	-	42	42	42	5	47	-	-	-	-	876	876	876	-	21	21
LOWER LEG	-	-	1	14	15	15	5	20	-	-	-	3,000	394	3,394	3,394	3,000	28	226
ANKLE	-	-	-	29	29	29	5	34	-	-	-	-	944	944	944	-	33	33
FOOT	-	-	-	23	23	23	3	26	-	-	-	-	890	890	890	-	39	39
TOE(S)	-	-	1	5	6	6	1	7	-	-	-	450	33	483	483	450	7	80
LOWER EXTREMITIES, NEC	-	-	-	26	26	26	5	31	-	-	-	-	853	853	853	-	33	33
BODY SYSTEMS	5	-	-	6	6	11	1	12	30,000	-	-	-	652	652	30,652	-	109	2,787
MULTIPLE PARTS OF BODY	6	1	-	58	59	65	7	72	36,000	6,000	-	-	4,191	10,191	46,191	-	72	711
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

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TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
SURFACE MINES:																
OPEN PIT:																
AMPUTATION/ENUCLEATION	-	-	14	-	14	14	-	14	-	.07	.07	-	.07	-	119	119
ASPHYXIATION/DROWNING	1	-	-	-	-	1	-	1	.01	-	.01	-	.01	30	-	30
BURN/SCALD (NOT CHEM.)	-	-	-	12	12	12	5	17	-	.06	.06	.03	.09	-	3	3
CHEMICAL BURN	-	-	-	2	2	2	2	4	-	.01	.01	.01	.02	-	(*)	(*)
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
CONTUSION OR BRUISE	4	-	-	54	54	58	35	93	.02	.27	.29	.18	.47	122	6	127
CUT OR PUNCTURE	-	-	-	51	51	51	69	120	-	.26	.26	.35	.61	-	3	3
DERMATITIS	-	-	-	1	1	1	-	1	-	.01	.01	-	.01	-	(*)	(*)
DISLOCATION	-	-	-	3	3	3	-	3	-	.02	.02	-	.02	-	(*)	(*)
DUST IN EYE	-	-	-	6	6	6	12	18	-	.03	.03	.06	.09	-	(*)	(*)
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	.01	.01	-	.01	-	3	3
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	.02	.02	-	.02	-	2	2
FRACTURE	1	-	-	57	57	58	19	77	.01	.29	.29	.10	.39	30	15	46
HERNIA (NOT DISC)	-	-	10	1	11	11	-	11	-	.06	.06	-	.06	-	3	3
POISONING (SYSTEMIC)	-	-	-	2	2	2	1	3	-	.01	.01	.01	.02	-	(*)	(*)
RADIATION/ULTRA VIOLET	-	-	-	5	5	5	7	12	-	.03	.03	.04	.06	-	(*)	(*)
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	.01	.01	.03	.03	-	(*)	(*)
STRAIN/SPRAIN	-	-	-	130	130	130	24	154	-	.66	.66	.12	.78	-	15	15
MULTIPLE INJURIES	2	1	-	48	49	51	20	71	.01	.25	.26	.10	.36	61	39	100
OTHER INJURY, NEC	-	-	-	6	6	6	-	6	-	.03	.03	-	.03	-	1	1
UNCLASSIFIED (NO DATA)	-	-	-	50	50	50	16	66	-	.25	.25	.08	.33	-	8	8
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	.04	2.34	2.38	1.09	3.47	243	218	461
DREDGE:																
AMPUTATION/ENUCLEATION	-	-	6	-	6	6	-	6	-	.15	.15	-	.15	-	45	45
ASPHYXIATION/DROWNING	4	-	-	-	-	4	-	4	.10	-	.10	-	.10	595	-	595
BURN/SCALD (NOT CHEM.)	-	-	-	2	2	2	2	4	-	.05	.05	.05	.10	-	(*)	(*)
CHEMICAL BURN	1	-	-	-	-	1	-	1	.02	-	.02	-	.02	149	-	149
CONTUSION OR BRUISE	1	-	-	8	8	9	4	13	.02	.20	.22	.10	.32	149	1	150
CUT OR PUNCTURE	-	-	-	14	14	14	7	21	-	.35	.35	.17	.52	-	4	4
DISLOCATION	-	-	-	1	1	1	1	2	-	.02	.02	.02	.05	-	(*)	(*)
DUST IN EYE	-	-	-	4	4	4	3	7	-	.10	.10	.07	.17	-	(*)	(*)
FRACTURE	-	-	-	12	12	12	2	14	-	.30	.30	.05	.35	-	17	17
HERNIA (NOT DISC)	-	-	4	2	6	6	-	6	-	.15	.15	-	.15	-	7	7
POISONING (SYSTEMIC)	-	-	-	2	2	2	-	2	-	.05	.05	-	.05	-	1	1
RADIATION/ULTRA VIOLET	-	-	-	3	3	3	1	4	-	.07	.07	.02	.10	-	1	1
STRAIN/SPRAIN	-	-	-	27	27	27	1	28	-	.67	.67	.02	.69	-	21	21
MULTIPLE INJURIES	1	-	-	14	14	15	1	16	.02	.35	.37	.02	.40	149	8	156
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	.02	.02	-	.02	-	5	5
UNCLASSIFIED (NO DATA)	-	-	-	12	12	12	2	14	-	.30	.30	.05	.35	-	8	8
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	.17	2.78	2.95	.59	3.54	1,041	118	1,159

TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
TOTAL OR AVERAGE, MINING:																
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	.08	.08	-	.08	-	107	107
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	.02	-	.02	-	.02	126	-	126
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	.06	.06	.03	.09	-	3	3
CHEMICAL BURN	1	-	-	2	2	3	2	5	(*)	.01	.01	.01	.02	25	(*)	25
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	.02	.26	.28	.16	.45	126	5	131
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	.27	.27	.32	.59	-	3	3
DERMATITIS	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
DISLOCATION	-	-	-	4	4	4	1	5	-	.02	.02	(*)	.02	-	(*)	(*)
DUST IN EYE	-	-	-	10	10	10	15	25	-	.04	.04	.06	.11	-	(*)	(*)
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	.01	.01	-	.01	-	3	3
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	.02	.02	-	.02	-	1	1
FRACTURE	1	-	-	69	69	70	21	91	(*)	.29	.29	.09	.38	25	16	41
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	.07	.07	-	.07	-	3	3
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	.02	.02	(*)	.02	-	(*)	(*)
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	.03	.03	.03	.07	-	(*)	(*)
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	(*)	(*)	.02	.03	-	(*)	(*)
STRAIN/SPRAIN	-	-	-	157	157	157	25	182	-	.66	.66	.11	.77	-	16	16
MULTIPLE INJURIES	3	1	-	62	63	66	21	87	.01	.27	.28	.09	.37	76	34	110
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	.03	.03	-	.03	-	2	2
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	.26	.26	.08	.34	-	8	8
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	.06	2.41	2.47	1.01	3.48	379	201	580
OFFICE:																
CHEMICAL BURN	-	-	-	1	1	1	-	1	-	.03	.03	-	.03	-	(*)	(*)
STRAIN/SPRAIN	-	-	-	2	2	2	2	4	-	.05	.05	.05	.11	-	1	1
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	.08	.08	.05	.13	-	1	1

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TABLE 8. - NUMBER OF INJURIES, INCIDENCE RATES, AND SEVERITY MEASURES BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								INCIDENCE RATES					SEVERITY MEASURES		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL	NDL	ALL INJURIES	FATAL	NFDL	ALL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL											
		TOTAL	PARTIAL													
GRAND TOTAL OR AVERAGE:																
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	.07	.07	-	.07	-	92	92
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	.02	-	.02	-	.02	109	-	109
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	.05	.05	.03	.08	-	3	3
CHEMICAL BURN	1	-	-	3	3	4	2	6	(*)	.01	.01	.01	.02	22	(*)	22
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	.02	.22	.24	.14	.38	109	4	113
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	.24	.24	.28	.51	-	2	2
DERMATITIS	-	-	-	1	1	1	-	1	-	(*)	(*)	-	(*)	-	(*)	(*)
DISLOCATION	-	-	-	4	4	4	1	5	-	.01	.01	(*)	.02	-	(*)	(*)
DUST IN EYE	-	-	-	10	10	10	15	25	-	.04	.04	.05	.09	-	(*)	(*)
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	.01	.01	-	.01	-	2	2
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	.01	.01	-	.01	-	1	1
FRACTURE	1	-	-	69	69	70	21	91	(*)	.25	.25	.08	.33	22	13	35
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	.06	.06	-	.06	-	3	3
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	.01	.01	(*)	.02	-	(*)	(*)
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	.03	.03	.03	.06	-	(*)	(*)
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	(*)	(*)	.02	.02	-	(*)	(*)
STRAIN/SPRAIN	-	-	-	159	159	159	27	186	-	.58	.58	.10	.67	-	14	14
MULTIPLE INJURIES	3	1	-	62	63	66	21	87	.01	.23	.24	.08	.32	65	29	95
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	.03	.03	-	.03	-	2	2
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	.22	.22	.07	.29	-	7	7
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	.05	2.09	2.14	.87	3.02	326	174	500

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
AMPUTATION/ENUCLEATION	-	-	14	-	14	14	-	14	-	-	23,560	-	23,560	23,560	1,683	-	1,683
ASPHYXIATION/DROWNING	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	12	12	12	5	17	-	-	-	686	686	686	-	57	57
CHEMICAL BURN	-	-	-	2	2	2	2	4	-	-	-	4	4	4	-	2	2
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	4	-	-	54	54	58	35	93	24,000	-	-	1,097	1,097	25,097	-	20	433
CUT OR PUNCTURE	-	-	-	51	51	51	69	120	-	-	-	529	529	529	-	10	10
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	3	3	3	-	3	-	-	-	86	86	86	-	29	29
DUST IN EYE	-	-	-	6	6	6	12	18	-	-	-	9	9	9	-	2	2
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
FRACTURE	1	-	-	57	57	58	19	77	6,000	-	-	3,019	3,019	9,019	-	53	156
HERNIA (NOT DISC)	-	-	10	1	11	11	-	11	-	-	500	37	537	537	50	37	49
POISONING (SYSTEMIC)	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
RADIATION/ULTRA VIOLET	-	-	-	5	5	5	7	12	-	-	-	70	70	70	-	14	14
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	130	130	130	24	154	-	-	-	2,928	2,928	2,928	-	23	23
MULTIPLE INJURIES	2	1	-	48	49	51	20	71	12,000	6,000	-	1,756	7,756	19,756	-	37	387
OTHER INJURY, NEC	-	-	-	6	6	6	-	6	-	-	-	249	249	249	-	42	42
UNCLASSIFIED (NO DATA)	-	-	-	50	50	50	16	66	-	-	-	1,574	1,574	1,574	-	31	31
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194
DREDGE:																	
AMPUTATION/ENUCLEATION	-	-	6	-	6	6	-	6	-	-	1,835	-	1,835	1,835	306	-	306
ASPHYXIATION/DROWNING	4	-	-	-	-	4	-	4	24,000	-	-	-	-	24,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	2	2	2	2	4	-	-	-	5	5	5	-	2	2
CHEMICAL BURN	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
CONTUSION OR BRUISE	1	-	-	8	8	9	4	13	6,000	-	-	40	40	6,040	-	5	671
CUT OR PUNCTURE	-	-	-	14	14	14	7	21	-	-	-	151	151	151	-	11	11
DISLOCATION	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
DUST IN EYE	-	-	-	4	4	4	3	7	-	-	-	8	8	8	-	2	2
FRACTURE	-	-	-	12	12	12	2	14	-	-	-	667	667	667	-	56	56
HERNIA (NOT DISC)	-	-	4	2	6	6	-	6	-	-	300	89	289	289	50	44	48
POISONING (SYSTEMIC)	-	-	-	2	2	2	-	2	-	-	-	36	36	36	-	18	18
RADIATION/ULTRA VIOLET	-	-	-	3	3	3	1	4	-	-	-	45	45	45	-	15	15
STRAIN/SPRAIN	-	-	-	27	27	27	1	28	-	-	-	867	867	867	-	32	32
MULTIPLE INJURIES	1	-	-	14	14	15	1	16	6,000	-	-	305	305	6,305	-	22	420
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	184	184	184	-	184	184
UNCLASSIFIED (NO DATA)	-	-	-	12	12	12	2	14	-	-	-	319	319	319	-	27	27
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393

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TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	MDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	-	25,395	-	25,395	25,395	1,270	-	1,270
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	30,000	-	-	-	-	30,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	-	-	691	691	691	-	49	49
CHEMICAL BURN	1	-	-	2	2	3	2	5	6,000	-	-	4	4	6,004	-	2	2,001
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	30,000	-	-	1,137	1,137	31,137	-	18	465
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	-	-	680	680	680	-	10	10
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	4	4	4	1	5	-	-	-	89	89	89	-	22	22
DUST IN EYE	-	-	-	10	10	10	15	25	-	-	-	17	17	17	-	2	2
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
FRACTURE	1	-	-	69	69	70	21	91	6,000	-	-	3,686	3,686	9,686	-	53	138
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	-	700	126	826	826	50	42	49
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	-	-	43	43	43	-	11	11
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	-	-	115	115	115	-	14	14
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	157	157	157	25	182	-	-	-	3,795	3,795	3,795	-	24	24
MULTIPLE INJURIES	3	1	-	62	63	66	21	87	18,000	6,000	-	2,061	8,061	26,061	-	33	395
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	-	-	433	433	433	-	62	62
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	-	-	1,893	1,893	1,893	-	31	31
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
CHEMICAL BURN	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
STRAIN/SPRAIN	-	-	-	2	2	2	2	4	-	-	-	47	47	47	-	24	24
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:																	
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	-	25,395	-	25,395	25,395	1,270	-	1,270
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	30,000	-	-	-	-	30,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	-	-	691	691	691	-	49	49
CHEMICAL BURN	1	-	-	3	3	4	2	6	6,000	-	-	7	7	6,007	-	2	1,502
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	30,000	-	-	1,137	1,137	31,137	-	18	465
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	-	-	680	680	680	-	10	10
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	4	4	4	1	5	-	-	-	89	89	89	-	22	22
DUST IN EYE	-	-	-	10	10	10	15	25	-	-	-	17	17	17	-	2	2
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
FRACTURE	1	-	-	69	69	70	21	91	6,000	-	-	3,686	3,686	9,686	-	53	138
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	-	700	126	826	826	50	42	49
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	-	-	43	43	43	-	11	11
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	-	-	115	115	115	-	14	14
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	159	159	159	27	186	-	-	-	3,842	3,842	3,842	-	24	24
MULTIPLE INJURIES	3	1	-	62	63	66	21	87	18,000	6,000	-	2,061	8,061	26,061	-	33	395
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	-	-	433	433	433	-	62	62
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	-	-	1,893	1,893	1,893	-	31	31
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

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TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
EAR:																	
BURN/SCALD (NOT CHEM.)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
TOTAL OR AVERAGE	-	-	-	1	1	1	2	3	-	-	-	8	8	8	-	8	8
EYE:																	
AMPUTATION/ENUCLEATION	-	-	1	-	1	1	-	1	-	-	1,800	-	1,800	1,800	1,800	-	1,800
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	3	4	-	-	-	61	61	61	-	61	61
CHEMICAL BURN	-	-	-	2	2	2	1	3	-	-	-	4	4	4	-	2	2
CUT OR PUNCTURE	-	-	-	11	11	11	9	20	-	-	-	31	31	31	-	3	3
DUST IN EYE	-	-	-	10	10	10	15	25	-	-	-	17	17	17	-	2	2
RADIATION: ULTRA VIOLET	-	-	-	5	5	5	6	11	-	-	-	5	5	5	-	1	1
SCRATCH ABRASION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	1	29	30	30	36	66	-	-	1,800	118	1,918	1,918	1,800	4	64
JAW:																	
CUT OR PUNCTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE:																	
CUT OR PUNCTURE	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
FRACTURE	-	-	-	-	-	-	6	6	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	2	2	2	-	2	-	-	-	5	5	5	-	2	2
TOTAL OR AVERAGE	-	-	-	3	3	3	7	10	-	-	-	6	6	6	-	2	2
NOSE:																	
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
TOTAL OR AVERAGE	-	-	-	2	2	2	3	5	-	-	-	2	2	2	-	1	1
SCALP:																	
CUT OR PUNCTURE	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
TOTAL OR AVERAGE	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
SKULL:																	
FRACTURE	1	-	-	2	2	3	-	3	6,000	-	-	235	235	6,235	-	118	2,078
TOTAL OR AVERAGE	1	-	-	2	2	3	-	3	6,000	-	-	235	235	6,235	-	118	2,078

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
FACE, NEC:																	
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	1	2	-	-	-	2	2	2	-	2	2
CONTUSION OR BRUISE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
FRACTURE	-	-	-	1	1	1	-	1	-	-	-	18	18	18	-	18	18
RADIATION/ULTRA VIOLET	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	9	12	-	-	-	21	21	21	-	7	7
HEAD, NEC:																	
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
CUT OR PUNCTURE	-	-	-	8	8	8	11	19	-	-	-	60	60	60	-	8	8
RADIATION/ULTRA VIOLET	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
MULTIPLE INJURIES	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
UNCLASSIFIED (NO DATA)	-	-	-	3	3	3	2	5	-	-	-	93	93	93	-	31	31
TOTAL OR AVERAGE	1	-	-	15	15	16	14	30	6,000	-	-	175	175	6,175	-	12	386
NECK:																	
STRAIN/SPRAIN	-	-	-	4	4	4	1	5	-	-	-	40	40	40	-	10	10
MULTIPLE INJURIES	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	2	4	-	-	-	7	7	7	-	4	4
TOTAL OR AVERAGE	1	-	-	7	7	8	3	11	6,000	-	-	52	52	6,052	-	7	756
UPPER ARM:																	
CUT OR PUNCTURE	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
TOTAL OR AVERAGE	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW:																	
CONTUSION OR BRUISE	-	-	-	3	3	3	2	5	-	-	-	15	15	15	-	5	5
CUT OR PUNCTURE	-	-	-	2	2	2	-	2	-	-	-	11	11	11	-	6	6
FRACTURE	-	-	-	5	5	5	-	5	-	-	-	34	34	34	-	7	7
STRAIN/SPRAIN	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE	-	-	-	12	12	12	2	14	-	-	-	66	66	66	-	6	6
FOREARM:																	
AMPUTATION/ENUCLEATION	-	-	1	-	1	1	-	1	-	-	3,600	-	3,600	3,600	3,600	-	3,600
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CUT OR PUNCTURE	-	-	-	1	1	1	4	5	-	-	-	15	15	15	-	15	15
FRACTURE	-	-	-	3	3	3	1	4	-	-	-	132	132	132	-	44	44
STRAIN/SPRAIN	-	-	-	1	1	1	-	1	-	-	-	35	35	35	-	35	35
TOTAL OR AVERAGE	-	-	1	5	6	6	6	12	-	-	3,600	182	3,782	3,782	3,600	35	630

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ABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
WRIST:																	
CONTUSION OR BRUISE	-	-	-	3	3	3	1	4	-	-	-	12	12	12	-	4	4
CUT OR PUNCTURE	-	-	-	1	1	1	4	5	-	-	-	12	12	12	-	12	12
FRACTURE	-	-	-	4	4	4	3	7	-	-	-	128	128	128	-	32	32
STRAIN/SPRAIN	-	-	-	1	1	1	1	2	-	-	-	14	14	14	-	14	14
MULTIPLE INJURIES	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	-	2	-	-	-	11	11	11	-	6	6
TOTAL OR AVERAGE	-	-	-	11	11	11	10	21	-	-	-	177	177	177	-	16	16
HAND:																	
BURN/SCALD (NOT CHEM.)	-	-	-	3	3	3	-	3	-	-	-	24	24	24	-	8	8
CONTUSION OR BRUISE	-	-	-	4	4	4	5	9	-	-	-	15	15	15	-	4	4
CUT OR PUNCTURE	-	-	-	6	6	6	6	12	-	-	-	66	66	66	-	11	11
ELECT. BURN (CONTACT)	-	-	-	3	3	3	-	3	-	-	-	59	59	59	-	20	20
FRACTURE	-	-	-	2	2	2	-	2	-	-	-	53	53	53	-	26	26
RADIATION/ULTRA VIOLET	-	-	-	1	1	1	1	2	-	-	-	34	34	34	-	34	34
STRAIN/SPRAIN	-	-	-	2	2	2	-	2	-	-	-	10	10	10	-	5	5
MULTIPLE INJURIES	-	-	-	2	2	2	2	4	-	-	-	141	141	141	-	70	70
TOTAL OR AVERAGE	-	-	-	23	23	23	14	37	-	-	-	402	402	402	-	17	17
FINGER(S):																	
AMPUTATION/ENUCLEATION	-	-	13	-	13	13	-	13	-	-	3,945	-	3,945	3,945	303	-	303
CHEMICAL BURN	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CONTUSION OR BRUISE	-	-	-	5	5	5	17	22	-	-	-	55	55	55	-	11	11
CUT OR PUNCTURE	-	-	-	18	18	18	20	38	-	-	-	265	265	265	-	15	15
DISLOCATION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE	-	-	-	7	7	7	4	11	-	-	-	224	224	224	-	32	32
SCRATCH/ABRASION	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	2	2	2	1	3	-	-	-	27	27	27	-	14	14
MULTIPLE INJURIES	-	-	-	8	8	8	6	14	-	-	-	147	147	147	-	18	18
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	4	6	-	-	-	60	60	60	-	30	30
TOTAL OR AVERAGE	-	-	13	43	56	56	55	111	-	-	3,945	781	4,726	4,726	303	18	84
UPPER EXTREMITIES, NEC:																	
AMPUTATION/ENUCLEATION	-	-	3	-	3	3	-	3	-	-	12,600	-	12,600	12,600	4,200	-	4,200
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	1	2	-	-	-	14	14	14	-	14	14
CONTUSION OR BRUISE	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
CUT OR PUNCTURE	-	-	-	1	1	1	2	3	-	-	-	4	4	4	-	4	4
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	15	15	15	-	15	15
FRACTURE	-	-	-	5	5	5	-	5	-	-	-	272	272	272	-	54	54
STRAIN/SPRAIN	-	-	-	3	3	3	1	4	-	-	-	36	36	36	-	12	12
MULTIPLE INJURIES	-	-	-	3	3	3	1	4	-	-	-	130	130	130	-	43	43
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	1	2	-	-	-	30	30	30	-	30	30
TOTAL OR AVERAGE	-	-	3	16	19	19	6	25	-	-	12,600	503	13,103	13,103	4,200	31	690

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ABDOMEN:																	
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK:																	
CONTUSION OR BRUISE	-	-	-	5	5	5	-	5	-	-	-	23	23	23	-	5	5
FRACTURE	-	-	-	2	2	2	-	2	-	-	-	88	88	88	-	44	44
STRAIN/SPRAIN	-	-	-	83	83	83	14	97	-	-	-	2,250	2,250	2,250	-	27	27
MULTIPLE INJURIES	-	-	-	3	3	3	-	3	-	-	-	105	105	105	-	35	35
OTHER INJURY, NEC	-	-	-	2	2	2	-	2	-	-	-	115	115	115	-	58	58
UNCLASSIFIED (NO DATA)	-	-	-	18	18	18	4	22	-	-	-	500	500	500	-	28	28
TOTAL OR AVERAGE	-	-	-	113	113	113	18	131	-	-	-	3,081	3,081	3,081	-	27	27
CHEST:																	
CONTUSION OR BRUISE	-	-	-	6	6	6	3	9	-	-	-	46	46	46	-	8	8
FRACTURE	-	-	-	2	2	2	3	5	-	-	-	8	8	8	-	4	4
STRAIN/SPRAIN	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
MULTIPLE INJURIES	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	3	3	3	-	3	-	-	-	34	34	34	-	11	11
TOTAL OR AVERAGE	-	-	-	12	12	12	7	19	-	-	-	91	91	91	-	8	8
PELVIC REGION:																	
CHEMICAL BURN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONTUSION OR BRUISE	1	-	-	2	2	3	-	3	6,000	-	-	42	42	6,042	-	21	2,014
CUT OR PUNCTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FRACTURE	-	-	-	1	1	1	-	1	-	-	-	44	44	44	-	44	44
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	-	700	126	826	826	50	42	49
STRAIN/SPRAIN	-	-	-	3	3	3	1	4	-	-	-	16	16	16	-	5	5
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	31	31	31	-	31	31
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	1	-	14	10	24	25	4	29	6,000	-	700	259	959	6,959	50	26	278
SHOULDER(S):																	
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	37	37	37	-	37	37
STRAIN/SPRAIN	-	-	-	6	6	6	2	8	-	-	-	70	70	70	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	4	4	4	1	5	-	-	-	44	44	44	-	11	11
TOTAL OR AVERAGE	-	-	-	11	11	11	3	14	-	-	-	151	151	151	-	14	14
TRUNK, NEC:																	
CONTUSION OR BRUISE	-	-	-	2	2	2	-	2	-	-	-	11	11	11	-	6	6
CUT OR PUNCTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	18	18	18	-	18	18
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	1	3	-	-	-	386	386	386	-	193	193
TOTAL OR AVERAGE	-	-	-	6	6	6	3	9	-	-	-	420	420	420	-	70	70

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TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
THIGH:																	
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
CONTUSION OR BRUISE	-	-	-	3	3	3	-	3	-	-	-	42	42	42	-	14	14
CUT OR PUNCTURE	-	-	-	2	2	2	3	5	-	-	-	24	24	24	-	12	12
FRACTURE	-	-	-	1	1	1	-	1	-	-	-	44	44	44	-	44	44
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	-	2	-	-	-	41	41	41	-	20	20
TOTAL OR AVERAGE	-	-	-	9	9	9	3	12	-	-	-	155	155	155	-	17	17
KNEE:																	
CONTUSION OR BRUISE	-	-	-	8	8	8	-	8	-	-	-	101	101	101	-	13	13
CUT OR PUNCTURE	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FRACTURE	-	-	-	2	2	2	-	2	-	-	-	57	57	57	-	28	28
STRAIN/SPRAIN	-	-	-	19	19	19	3	22	-	-	-	461	461	461	-	24	24
MULTIPLE INJURIES	-	-	-	4	4	4	-	4	-	-	-	58	58	58	-	14	14
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	73	73	73	-	73	73
UNCLASSIFIED (NO DATA)	-	-	-	6	6	6	2	8	-	-	-	107	107	107	-	18	18
TOTAL OR AVERAGE	-	-	-	42	42	42	5	47	-	-	-	876	876	876	-	21	21
LOWER LEG:																	
AMPUTATION/ENUCLEATION	-	-	1	-	1	1	-	1	-	-	3,000	-	3,000	3,000	3,000	-	3,000
CONTUSION OR BRUISE	-	-	-	5	5	5	-	5	-	-	-	63	63	63	-	13	13
CUT OR PUNCTURE	-	-	-	1	1	1	3	4	-	-	-	5	5	5	-	5	5
FRACTURE	-	-	-	3	3	3	-	3	-	-	-	187	187	187	-	62	62
SCRATCH/ABRASION	-	-	-	1	1	1	1	2	-	-	-	8	8	8	-	8	8
MULTIPLE INJURIES	-	-	-	3	3	3	1	4	-	-	-	101	101	101	-	34	34
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	30	30	30	-	30	30
TOTAL OR AVERAGE	-	-	1	14	15	15	5	20	-	-	3,000	394	3,394	3,394	3,000	28	226
ANKLE:																	
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	34	34	34	-	34	34
FRACTURE	-	-	-	11	11	11	2	13	-	-	-	724	724	724	-	66	66
STRAIN/SPRAIN	-	-	-	17	17	17	2	19	-	-	-	186	186	186	-	11	11
TOTAL OR AVERAGE	-	-	-	29	29	29	5	34	-	-	-	944	944	944	-	33	33
FOOT:																	
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	23	23	23	-	23	23
CONTUSION OR BRUISE	-	-	-	6	6	6	1	7	-	-	-	60	60	60	-	10	10
CUT OR PUNCTURE	-	-	-	4	4	4	2	6	-	-	-	97	97	97	-	24	24
FRACTURE	-	-	-	9	9	9	-	9	-	-	-	642	642	642	-	71	71
MULTIPLE INJURIES	-	-	-	2	2	2	-	2	-	-	-	58	58	58	-	29	29
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
TOTAL OR AVERAGE	-	-	-	23	23	23	3	26	-	-	-	890	890	890	-	39	39

TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOE(S):																	
AMPUTATION/ENUCLEATION	-	-	1	-	1	1	-	1	-	-	450	-	450	450	450	-	450
CONTUSION OR BRUISE	-	-	-	2	2	2	1	3	-	-	-	8	8	8	-	4	4
MULTIPLE INJURIES	-	-	-	2	2	2	-	2	-	-	-	18	18	18	-	9	9
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	7	7	7	-	7	7
TOTAL OR AVERAGE	-	-	1	5	6	6	1	7	-	-	450	33	483	483	450	7	80
LOWER EXTREMITIES, NEC:																	
BURN/SCALD (NOT CHEM.)	-	-	-	2	2	2	1	3	-	-	-	7	7	7	-	4	4
CONTUSION OR BRUISE	-	-	-	2	2	2	-	2	-	-	-	64	64	64	-	32	32
CUT OR PUNCTURE	-	-	-	2	2	2	2	4	-	-	-	16	16	16	-	8	8
FRACTURE	-	-	-	6	6	6	-	6	-	-	-	444	444	444	-	74	74
RADIATION/ULTRA VIOLET	-	-	-	1	1	1	-	1	-	-	-	66	66	66	-	66	66
SCRATCH/ABRASION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	5	5	5	-	5	-	-	-	118	118	118	-	24	24
MULTIPLE INJURIES	-	-	-	7	7	7	1	8	-	-	-	136	136	136	-	19	19
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
TOTAL OR AVERAGE	-	-	-	26	26	26	5	31	-	-	-	853	853	853	-	33	33
BODY SYSTEMS:																	
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	30,000	-	-	-	-	30,000	-	-	6,000
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	-	-	43	43	43	-	11	11
TOTAL OR AVERAGE	5	-	-	6	6	11	1	12	30,000	-	-	652	652	30,652	-	109	2,787
MULTIPLE PARTS OF BODY:																	
BURN/SCALD (NOT CHEM.)	-	-	-	4	4	4	-	4	-	-	-	556	556	556	-	139	139
CHEMICAL BURN	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
CONTUSION OR BRUISE	3	-	-	5	5	8	3	11	18,000	-	-	578	578	18,578	-	119	2,322
CUT OR PUNCTURE	-	-	-	2	2	2	-	2	-	-	-	36	36	36	-	18	18
ELECT. BURN (CONTACT)	-	-	-	1	1	1	-	1	-	-	-	273	273	273	-	273	273
FRACTURE	-	-	-	2	2	2	-	2	-	-	-	351	351	351	-	176	176
STRAIN/SPRAIN	-	-	-	10	10	10	-	10	-	-	-	568	568	568	-	57	57
MULTIPLE INJURIES	2	1	-	21	22	24	4	28	12,000	6,000	-	1,133	7,133	19,133	-	54	797
OTHER INJURY, NEC	-	-	-	2	2	2	-	2	-	-	-	209	209	209	-	104	104
UNCLASSIFIED (NO DATA)	-	-	-	11	11	11	-	11	-	-	-	487	487	487	-	44	44
TOTAL OR AVERAGE	6	1	-	58	59	65	7	72	36,000	6,000	-	4,191	10,191	46,191	-	72	711
UNCLASSIFIED:																	
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22

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TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE:																	
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	-	25,395	-	25,395	25,395	1,270	-	1,270
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	30,000	-	-	-	-	30,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	-	-	691	691	691	-	49	49
CHEMICAL BURN	1	-	-	3	3	4	2	6	6,000	-	-	7	7	6,007	-	2	1,502
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	30,000	-	-	1,137	1,137	31,137	-	18	465
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	-	-	680	680	680	-	10	10
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	4	4	4	1	5	-	-	-	89	89	89	-	22	22
DUST IN EYE	-	-	-	10	10	10	15	25	-	-	-	17	17	17	-	2	2
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
FRACTURE	1	-	-	69	69	70	21	91	6,000	-	-	3,686	3,686	9,686	-	53	138
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	-	700	126	826	826	50	42	49
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	-	-	43	43	43	-	11	11
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	-	-	115	115	115	-	14	14
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	159	159	159	27	186	-	-	-	3,842	3,842	3,842	-	24	24
MULTIPLE INJURIES	3	1	-	62	63	66	21	87	18,000	6,000	-	2,061	8,061	26,061	-	33	395
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	-	-	433	433	433	-	62	62
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	-	-	1,893	1,893	1,893	-	31	31
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSELS UNDER PRESSURE			EXPLOSIVES AND BREAKING AGENTS			FALLING, ROLLING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOLS			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
OPEN PIT:																																	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
ARIZONA	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	1	2	-	-	-	-
ARKANSAS	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	22	12	-	15	6	-	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	6	-	-	2	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	1	2	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	-	3	1	-	-	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	2	-	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-	-	-
NEW YORK	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	2	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	3	3	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	2	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	21	12	-	5	10	-	-	-	-
TEXAS	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	-	-	-	-	-	-
VIRGINIA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	2	-	-	-	-
WASHINGTON	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	-
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	10	2	-	-	-	1	2	-	-	-	-	1	2	-	1	-	-	-	-	-	-	2	-	140	60	-	46	47	-	-	2	-

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TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIPS OR FALLS OF PERSONS			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
OPEN PIT:																																	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	1	-	-	8	2
ALASKA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	5	1
ARIZONA	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	-	-	-	-	-	-	1	16	8
ARKANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	11	6
CALIFORNIA	-	16	6	-	-	-	-	-	-	-	-	-	-	-	-	-	11	8	-	25	3	-	2	1	-	-	3	-	1	-	1	93	43
COLORADO	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	1	-	6	1	-	-	-	-	-	-	-	-	-	-	21	10
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
ILLINOIS	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	11	-
INDIANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	3	-	-	-	-	-	-	-	-	-	-	-	12	1
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-
KANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	5	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	2	1
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-
MARYLAND	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	-	7	-	-	-	1	-	-	-	-	-	-	-	22	8
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	11	-
MICHIGAN	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	6	2	-	-	-	-	-	-	-	1	-	-	17	8
MINNESOTA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	-	-	-	-	-	-	-	1	-	8	4
MISSISSIPPI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	1	-	-	-	-	-	-	-	1	6	2
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
MONTANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	5	1
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
NEVADA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	-	-	-	-	-	-	4	5
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-
NEW MEXICO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	3	-	-	-	-	-	-	-	-	-	-	14	7
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-	8	6
NORTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-	-	-	-	-	11	2
NORTH DAKOTA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2
OHIO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	6	1	-	-	-	-	-	-	-	-	1	-	16	9
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	1	-	-	-	-	5	1
PENNSYLVANIA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	4	-	-	1	-	-	-	-	-	-	-	-	13	1
PUERTO RICO	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
SOUTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	1	-	6	1
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	4	2
TEXAS	-	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	-	18	8	-	3	-	-	-	2	-	3	6	-	65	49
UTAH	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	1	-	-	-	-	3	7
VIRGINIA	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	1	-	-	-	-	-	-	-	-	-	1	13	8
WASHINGTON	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	6	3
WISCONSIN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	1	-	-	-	-	-	-	-	-	1	-	13	3
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1
TOTAL	4	60	20	-	-	-	-	2	-	-	-	-	-	-	-	-	49	38	-	127	28	-	11	3	-	2	5	-	8	10	8	481	215

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSELS UNDER PRESSURE			EXPLOSIVES AND BREAKING AGENTS			FALLING, ROLLING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOLS			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
DREDGE:																																
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	-	-	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	1	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-
OKLAHOMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OREGON	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	3	-	1	2	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	3	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	29	6	-	17	5	-	-	-

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BEST COPY AVAILABLE

TABLE 11 - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIPS OR FALLS OF PERSONS			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
DREDGE:																																
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	5	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
FLORIDA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	9	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	-	-	-	-	-	-	1	-	-	7	3
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	10	1
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	6	2
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	8	4
MISSISSIPPI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	5
MISSOURI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	5	1
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	-	-	-	-	-	-	-	-	-	6	1
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	6	2	-	-	-	-	-	-	-	-	-	-	13	7
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1
OKLAHOMA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	6	1
OREGON	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
PENNSYLVANIA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	2	-
TEXAS	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	4	1	-	-	-	-	-	1	-	2	-	1	12	7
TOTAL	3	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	14	7	2	30	5	-	3	-	-	1	-	1	6	1	7	112	24

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSELS UNDER PRESSURE			EXPLOSIVES AND BREAKING AGENTS			FALLING, ROLLING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOLS			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
TOTAL MINING:																																	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1	-	1	-	-	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
ARIZONA	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	3	2	-	-	-
ARKANSAS	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	1	3	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	23	12	-	15	6	-	-	2
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	8	6	-	-	2	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	2	1	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	-	-	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	2	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	-	-	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	-	3	1	-	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	-	1	1	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	2	-	-	-
NEW YORK	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	3	-	1	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	2	-	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	3	3	-	-	-
OKLAHOMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	3	-	-	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	2	-	-	-
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-
TEXAS	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	23	15	-	6	18	-	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	-	-	-
VIRGINIA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	-	2	-	-	-
WASHINGTON	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	2	-	-	-
WISCONSIN	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
TOTAL	-	13	2	-	-	-	1	3	-	-	-	-	1	5	-	1	-	-	-	-	-	-	2	-	1	169	66	-	63	52	-	-	2
OFFICE:																																	
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-

BEST COPY AVAILABLE

BEST COPY AVAILABLE

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIPS OR FALLS OF PERSONS			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
TOTAL MINING:																																	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	-	-	-	1	-	-	13	2
ALASKA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5	1
ARIZONA	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	-	-	-	-	1	-	1	16	8
ARKANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	1	-	1	11	6
CALIFORNIA	-	16	8	-	-	-	-	-	-	-	-	-	-	-	-	11	8	-	26	3	-	2	1	-	-	-	3	-	1	-	1	95	43
COLORADO	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	6	2	-	-	-	-	-	-	-	-	-	-	-	21	11
FLORIDA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	9	1
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
ILLINOIS	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	13	1
INDIANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	12	1
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	-	-	-	-	-	-	-	-	-	1	-	1	12	3
KANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	12	1
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	11	1
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6	-	-	-	-	-	-	-	-	-	-	-	-	10	1
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-
MARYLAND	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	5	3	-	7	-	-	1	-	-	-	-	-	-	-	-	-	22	8
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	11	1
MICHIGAN	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	6	2	-	-	-	-	-	-	-	-	-	-	-	17	8
MINNESOTA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	-	-	-	-	-	-	-	1	-	1	8	4
MISSISSIPPI	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	-	-	1	-	-	-	-	-	-	-	-	-	10	3
MISSOURI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1
MONTANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	5	1
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	7	1
NEVADA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	-	-	-	-	-	-	-	4	5
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	7	2	-	-	-	-	-	-	-	-	-	-	-	15	7
NEW MEXICO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	3	-	-	-	-	-	-	-	-	-	-	-	14	7
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	8	6
NORTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-	-	-	-	-	-	11	2
NORTH DAKOTA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	2
OHIO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	6	1	-	1	-	-	-	-	-	-	1	-	1	17	10
OKLAHOMA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	1	-	-	-	-	-	1	1	-	2	8	2
OREGON	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	2	5	1
PENNSYLVANIA	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	4	-	-	1	-	-	-	-	-	-	-	-	-	2	24	1
PUERTO RICO	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-
SOUTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	7	6
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	1	-	-	6	2
TENNESSEE	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	6	3
TEXAS	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	4	6	-	22	9	-	3	-	-	2	-	-	5	6	1	1	77	56
UTAH	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	1	-	-	-	-	3	7
VIRGINIA	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	13	8
WASHINGTON	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	6	6
WISCONSIN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	1	-	-	-	-	-	-	-	-	-	-	-	13	3
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1
TOTAL	7	55	20	-	-	-	-	2	-	-	-	-	-	-	-	1	63	45	2	157	23	-	14	3	-	3	5	1	14	11	18	573	239
OFFICE:																																	
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	2	-
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	3	2

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSELS UNDER PRESSURE			EXPLOSIVES AND BREAKING AGENTS			FALLING, ROLLING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOLS			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
GRAND TOTAL:																																	
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1	-	1	-	-	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
ARIZONA	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	3	2	-	-	-
ARKANSAS	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	1	3	-	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	24	12	-	15	6	-	-	2
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	6	-	-	2	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	-	-	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	2	1	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	-	-	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	-	3	1	-	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	2	-	-	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	-	1	1	-	-	-
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	6	-	-	2	2	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	3	-	1	-	-	-	-
NEW YORK	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	2	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	3	3	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
OKLAHOMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	3	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	1	2	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	24	15	-	6	18	-	-	-
TEXAS	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	-	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	-	2	-	-	-
VIRGINIA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	2	-	-	-
WASHINGTON	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-
WISCONSIN	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	13	2	-	-	-	1	3	-	-	-	-	1	5	-	1	-	-	-	-	-	-	2	-	1	171	66	-	53	52	-	-	2

BEST COPY AVAILABLE

BEST COPY AVAILABLE

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIPS OR FALLS OF PERSONS			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
GRAND TOTAL:																																
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	-	-	-	1	1	-	13	5
ALASKA	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1
ARIZONA	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	-	-	-	-	-	-	-	-	-	-	1	16	6
ARKANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	1	-	1	11	4
CALIFORNIA	-	16	8	-	-	-	-	-	-	-	-	-	-	-	-	11	8	-	26	3	-	2	1	-	3	-	-	1	-	1	95	43
COLORADO	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	3	1	-	6	2	-	-	-	-	-	-	-	-	-	-	-	21	11
FLORIDA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	4	1
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	13	3
ILLINOIS	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	3	-	-	-	1	-	-	-	-	-	-	-	-	12	3
INDIANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	12	2
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	12	2
KANSAS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	12	2
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-	-	-	-	-	-	2	-	-	11	2
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6	1	-	-	-	-	-	-	-	-	-	-	-	10	2
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-
MARYLAND	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	5	3	-	7	2	-	1	1	-	-	-	-	-	-	-	-	22	11
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	11	2
MICHIGAN	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	6	3	-	-	-	-	-	-	-	-	-	-	-	17	8
MINNESOTA	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	3	3	-	1	-	-	-	-	-	-	-	-	-	10	5
MISSISSIPPI	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5	2
MISSOURI	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	7	4
MONTANA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4	1
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	7	1
NEVADA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4	1
NEW HAMPSHIRE	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
NEW JERSEY	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	7	2	-	-	-	-	-	-	-	-	-	-	-	15	4
NEW MEXICO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	3	-	-	-	-	-	-	-	-	-	-	-	14	8
NEW YORK	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	1	-	-	-	-	-	-	-	-	-	-	-	11	3
NORTH CAROLINA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	6	1	-	1	-	-	-	-	-	-	-	-	-	17	8
NORTH DAKOTA	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	4	1	-	1	-	-	1	1	-	-	-	-	-	9	5
OHIO	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	4	1	-	1	-	-	-	-	-	-	2	1	-	24	9
OKLAHOMA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	7	3
OREGON	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	3	1
PENNSYLVANIA	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	6	1	-	1	-	-	-	-	-	-	1	-	-	13	3
PUERTO RICO	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	6	1
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	3	1	-	-	-	-	-	-	-	-	-	-	-	13	3
SOUTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	13	2
TENNESSEE	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-
TEXAS	1	8	2	-	-	-	-	-	-	-	-	-	-	-	-	4	6	-	23	9	-	3	-	-	2	1	-	-	5	6	1	79	36
UTAH	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	3	1
VIRGINIA	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	13	3
WASHINGTON	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	3	1	-	-	-	-	-	-	-	-	-	-	-	13	6
WISCONSIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	7	65	20	-	-	-	-	2	-	-	-	-	-	-	-	1	63	45	2	158	34	-	14	4	-	3	5	1	14	11	15	576	241

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TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSELS UNDER PRESSURE		EXPLOSIVES AND BREAKING AGENTS		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOLS		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OPEN PIT:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	-	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-
ARIZONA	-	269	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	53	-	14	-	-
ARKANSAS	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	9,139	-	2	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	9	-	534	-	321	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	278	-	230	-	-	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	-	28	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	529	-	6	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	33	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	2	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	305	-	5	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	36	-	17	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	24	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246	-	46	-	-
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	10	-	-
PENNSYLVANIA	-	-	-	-	6,000	-	-	-	-	-	-	-	-	-	-	-	-	103	-	27	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	21	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
TEXAS	-	389	-	-	-	-	-	-	-	100	-	-	-	-	-	-	-	542	-	71	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	-	-	-	-
VIRGINIA	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
WASHINGTON	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
WISCONSIN	-	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	-	181	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL	-	1,024	-	-	6,000	8	-	-	6,000	106	6,000	-	-	-	-	287	6,000	10,021	-	837	-	-

BEST COPY AVAILABLE

BEST COPY AVAILABLE

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIPS OR FALLS OF PERSONS		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OPEN PIT:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	2	-	-	-	30	-	162
ALASKA	-	369	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-	-	-	-	508
ARIZONA	6,000	109	-	-	-	-	-	-	-	-	-	3	-	49	-	-	-	-	-	-	6,000	502
ARKANSAS	-	13	-	-	-	-	-	-	-	-	-	1	-	135	-	-	-	-	-	-	-	6,293
CALIFORNIA	-	6,894	-	-	-	-	-	-	-	-	-	157	-	623	-	27	-	-	-	152	6,000	8,717
COLORADO	-	77	-	-	-	20	-	-	-	-	-	41	-	31	-	-	-	-	-	-	-	677
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	18	-	8	-	-	-	-	-	-	-	30
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
ILLINOIS	-	112	-	-	-	-	-	-	-	-	-	4,501	-	92	-	-	-	-	-	-	-	4,834
INDIANA	-	21	-	-	-	-	-	-	-	-	-	491	-	22	-	-	-	-	-	-	-	636
IOWA	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	-	-	-	-	-	65
KANSAS	-	400	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-	444
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	2	-	6	-	16	-	-	-	-	-	66
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	74	-	-	-	-	-	-	-	74
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	22
MARYLAND	-	169	-	-	-	-	-	-	-	-	-	40	-	203	-	-	-	-	-	-	-	528
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	2	-	135	-	2	-	-	-	-	-	674
MICHIGAN	-	-	-	-	-	3	-	-	-	-	-	-	-	264	-	-	-	-	-	-	-	391
MINNESOTA	6,000	15	-	-	-	-	-	-	-	-	-	21	-	258	-	-	-	-	-	7	6,000	515
MISSISSIPPI	-	30	-	-	-	-	-	-	-	-	-	-	-	6	-	23	-	-	-	-	-	84
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
MONTANA	-	44	-	-	-	-	-	-	-	-	-	6	-	31	-	-	-	-	-	-	-	82
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	23
NEVADA	-	4,500	-	-	-	-	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	4,585
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
NEW JERSEY	-	53	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-	6,000	85
NEW MEXICO	-	90	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	-	500
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	2	-	134	-	-	-	-	-	-	6,000	189
NORTH CAROLINA	-	5	-	-	-	-	-	-	-	-	-	-	-	111	-	-	-	-	-	-	-	179
NORTH DAKOTA	-	3	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	58
OHIO	-	3	-	-	-	-	-	-	-	-	-	20	-	216	-	-	-	-	-	15	-	546
OKLAHOMA	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3
OREGON	-	-	-	-	-	-	-	-	-	-	-	400	-	17	-	13	-	-	-	-	-	452
PENNSYLVANIA	6,000	5	-	-	-	-	-	-	-	-	-	67	-	193	-	23	-	-	-	-	12,000	418
PUERTO RICO	-	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128
SOUTH CAROLINA	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	83
TENNESSEE	-	24	-	-	-	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-	-	78
TEXAS	-	5,007	-	-	-	-	-	-	-	-	-	63	-	667	-	83	-	10	-	1,807	-	8,739
UTAH	6,000	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6,000	114
VIRGINIA	-	228	-	-	-	-	-	-	-	-	-	66	-	285	-	-	-	-	-	-	-	604
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	115
WISCONSIN	-	9	-	-	-	-	-	-	-	-	-	161	-	47	-	-	-	-	-	2	-	854
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	5
TOTAL	24,000	18,311	-	-	-	23	-	-	-	-	-	6,170	-	4,074	-	189	-	10	-	2,013	48,000	43,073

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TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSELS UNDER PRESSURE		EXPLOSIVES AND BREAKING AGENTS		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOLS		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
DREDGE:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	9	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	459	-	2	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279	-	51	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	1	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	20	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	40	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
NEW JERSEY	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	-	22	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKLAHOMA	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	116	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENNSYLVANIA	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	705	-	34	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-	-	-	6	-	400	-	-
TOTAL	-	45	-	-	-	20	-	-	-	110	-	-	-	-	-	-	-	1,769	-	801	-	-

BEST COPY AVAILABLE

BEST COPY AVAILABLE

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIPS OR FALLS OF PERSONS		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
DREDGE:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	108
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	26
FLORIDA	-	16	-	-	-	-	-	-	-	-	-	55	-	1	-	8	-	-	-	-	-	592
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	8
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	56
IOWA	-	-	-	-	-	-	-	-	-	-	-	1	-	59	-	-	-	-	-	2	-	92
KANSAS	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	9	-	-	-	346
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	51	-	63
LOUISIANA	-	-	-	-	-	-	-	-	-	-	6,000	-	-	71	-	-	-	-	-	-	6,000	145
MISSISSIPPI	-	400	-	-	-	-	-	-	-	-	-	75	-	14	-	-	-	-	-	-	-	565
MISSOURI	-	2	-	-	-	-	-	-	-	-	-	1	6,000	-	-	-	-	-	-	-	6,000	56
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	439	6,000	30	-	-	-	-	-	-	6,000	470
NEW JERSEY	-	-	-	-	-	-	-	-	-	-	-	1	-	165	-	-	-	-	-	-	-	309
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
OKLAHOMA	6,000	59	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	6,000	-	12,000	252
OREGON	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	-
PENNSYLVANIA	-	5	-	-	-	-	-	-	-	-	-	236	-	-	-	-	-	-	-	-	-	1,000
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	10
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	11
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	14	-	22
TEXAS	6,000	-	-	-	-	-	-	-	-	-	-	20	-	108	-	-	-	-	-	38	6,000	622
TOTAL	18,000	482	-	-	-	-	-	-	-	-	6,000	835	12,000	561	-	17	-	9	6,000	105	42,000	4,754

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSELS UNDER PRESSURE		EXPLOSIVES AND BREAKING AGENTS		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE, RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOLS		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	-	9	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-
ARIZONA	-	269	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	53	-	14	-	-
ARKANSAS	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	6,139	-	2	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	9	-	557	-	321	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	278	-	230	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	459	-	2	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	-	28	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	30	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279	-	51	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	43	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	20	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	529	-	6	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	23	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	78	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	40	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEW JERSEY	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	111	-	22	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	305	-	5	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	36	-	17	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	24	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246	-	46	-	-
OKLAHOMA	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	116	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	10	-	-
PENNSYLVANIA	-	-	-	-	6,000	20	-	-	-	-	-	-	-	-	-	-	-	808	-	61	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	21	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
TEXAS	-	389	-	-	-	-	-	-	-	150	-	-	-	-	-	-	-	548	-	471	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	-	-	-	-
VIRGINIA	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
WASHINGTON	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
WISCONSIN	-	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	-	181	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL	-	1,069	-	-	6,000	28	-	-	6,000	216	6,000	-	-	-	-	287	6,000	11,790	-	1,638	-	-
OFFICE:																						
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-	-

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TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIPS OR FALLS OF PERSONS		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
TOTAL MINING:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	60	-	9	-	2	-	-	-	30	-	270
ALASKA	-	369	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-	-	-	-	508
ARIZONA	6,000	109	-	-	-	-	-	-	-	-	-	3	-	49	-	-	-	-	-	-	6,000	502
ARKANSAS	-	13	-	-	-	-	-	-	-	-	-	-	-	135	-	-	-	-	-	-	-	6,293
CALIFORNIA	-	6,894	-	-	-	-	-	-	-	-	-	157	-	626	-	27	-	-	-	152	6,000	8,743
COLORADO	-	77	-	-	-	20	-	-	-	-	-	41	-	31	-	-	-	-	-	-	-	677
FLORIDA	-	16	-	-	-	-	-	-	-	-	-	55	-	1	-	8	-	-	-	-	-	592
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	18	-	16	-	-	-	-	-	-	-	38
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
ILLINOIS	-	112	-	-	-	-	-	-	-	-	-	4,501	-	148	-	-	-	-	-	-	-	4,890
INDIANA	-	21	-	-	-	-	-	-	-	-	-	491	-	22	-	-	-	-	-	-	-	636
IOWA	-	-	-	-	-	-	-	-	-	-	-	43	-	59	-	-	-	-	-	2	-	157
KANSAS	-	400	-	-	-	-	-	-	-	-	-	7	-	44	-	-	-	9	-	-	-	790
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	2	-	7	-	16	-	-	-	51	-	129
LOUISIANA	-	-	-	-	-	-	-	-	-	-	6,000	-	-	145	-	-	-	-	-	-	6,000	219
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	22
MARYLAND	-	169	-	-	-	-	-	-	-	-	-	40	-	203	-	-	-	-	-	-	-	528
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	2	-	135	-	2	-	-	-	-	-	674
MICHIGAN	-	-	-	-	-	3	-	-	-	-	-	-	-	264	-	-	-	-	-	-	-	391
MINNESOTA	6,000	15	-	-	-	-	-	-	-	-	-	21	-	258	-	-	-	-	-	7	6,000	515
MISSISSIPPI	-	430	-	-	-	-	-	-	-	-	-	75	-	20	-	23	-	-	-	-	-	649
MISSOURI	-	2	-	-	-	-	-	-	-	-	-	2	6,000	-	-	-	-	-	-	-	6,000	57
MONTANA	-	44	-	-	-	-	-	-	-	-	-	6	-	31	-	-	-	-	-	-	-	82
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	439	6,000	53	-	-	-	-	-	-	6,000	493
NEVADA	-	4,500	-	-	-	-	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	4,585
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
NEW JERSEY	-	53	-	-	-	-	-	-	-	-	-	1	-	197	-	-	-	-	-	-	6,000	394
NEW MEXICO	-	90	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	-	508
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	2	-	134	-	-	-	-	-	-	6,000	189
NORTH CAROLINA	-	5	-	-	-	-	-	-	-	-	-	-	-	111	-	-	-	-	-	-	-	179
NORTH DAKOTA	-	3	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	58
OHIO	-	3	-	-	-	-	-	-	-	-	-	20	-	216	-	1	-	-	-	15	-	547
OKLAHOMA	6,000	59	-	-	-	-	-	-	-	-	-	1	-	15	-	-	-	-	6,000	-	12,000	255
OREGON	6,000	-	-	-	-	-	-	-	-	-	-	400	-	17	-	13	-	-	-	-	6,000	452
PENNSYLVANIA	6,000	10	-	-	-	-	-	-	-	-	-	303	-	193	-	23	-	-	-	-	12,000	1,418
PUERTO RICO	-	128	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	138
SOUTH CAROLINA	-	3	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	94
TENNESSEE	-	24	-	-	-	-	-	-	-	-	-	-	-	32	-	8	-	-	-	14	-	100
TEXAS	6,000	5,007	-	-	-	-	-	-	-	-	-	83	-	775	-	83	-	10	-	1,845	6,000	9,361
UTAH	6,000	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6,000	114
VIRGINIA	-	228	-	-	-	-	-	-	-	-	-	66	-	285	-	-	-	-	-	-	-	604
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	115
WISCONSIN	-	9	-	-	-	-	-	-	-	-	-	161	-	47	-	-	-	-	-	2	-	854
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	5
TOTAL	42,000	18,793	-	-	-	23	-	-	-	-	6,000	7,005	12,000	4,635	-	206	-	19	6,000	2,118	90,000	47,827
OFFICE																						
CALIFORNIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	47
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	50

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSELS UNDER PRESSURE		EXPLOSIVES AND BREAKING AGENTS		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOLS		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	-	9	-	-
ALASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-
ARIZONA	-	269	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	53	-	14	-	-
ARKANSAS	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	6,139	-	2	-	-
CALIFORNIA	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	9	-	560	-	321	-	-
COLORADO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	273	-	230	-	-	-	-
FLORIDA	-	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	-	459	-	2	-	-
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
ILLINOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	-	28	-	-
INDIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-
IOWA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	30	-	-
KANSAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279	-	51	-	-
KENTUCKY	-	1	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	43	-	-	-	-
LOUISIANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	20	-	-
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-
MARYLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-	-	-	-
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	529	-	6	-	-
MICHIGAN	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	23	-	-
MINNESOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	-	-	-
MISSISSIPPI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	78	-	-
MISSOURI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	40	-	-
MONTANA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NEW JERSEY	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	111	-	22	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	305	-	5	-	-
NEW YORK	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	36	-	17	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	24	-	-
NORTH DAKOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
OHIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246	-	46	-	-
OKLAHOMA	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	116	-	-
OREGON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	10	-	-
PENNSYLVANIA	-	-	-	-	6,000	20	-	-	-	-	-	-	-	-	-	-	-	808	-	61	-	-
PUERTO RICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	-	21	-	-
TENNESSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
TEXAS	-	389	-	-	-	-	-	-	-	150	-	-	-	-	-	-	-	581	-	471	-	-
UTAH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	-	-	-	-
VIRGINIA	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
WASHINGTON	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	-
WISCONSIN	-	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	-	181	-	-
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL	-	1 069	-	-	6,000	28	-	-	6,000	216	6,000	-	-	-	-	287	6,000	11,826	-	1,638	-	-

BEST COPY AVAILABLE

BEST COPY AVAILABLE

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIPS OR FALLS OF PERSONS		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
GRAND TOTAL:																						
ALABAMA	-	-	-	-	-	-	-	-	-	-	-	60	-	9	-	2	-	-	-	30	-	270
ALASKA	-	369	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-	-	-	-	508
ARIZONA	6,000	109	-	-	-	-	-	-	-	-	-	3	-	49	-	-	-	-	-	-	-	502
ARKANSAS	-	13	-	-	-	-	-	-	-	-	-	1	-	135	-	-	-	-	-	-	6,000	6,293
CALIFORNIA	-	6,894	-	-	-	-	-	-	-	-	-	157	-	626	-	27	-	-	-	152	-	8,746
COLORADO	-	77	-	-	-	20	-	-	-	-	-	41	-	31	-	-	-	-	-	-	6,000	677
FLORIDA	-	16	-	-	-	-	-	-	-	-	-	55	-	1	-	8	-	-	-	-	-	592
GEORGIA	-	-	-	-	-	-	-	-	-	-	-	18	-	16	-	-	-	-	-	-	-	38
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
ILLINOIS	-	112	-	-	-	-	-	-	-	-	-	4,501	-	148	-	-	-	-	-	-	-	4,890
INDIANA	-	21	-	-	-	-	-	-	-	-	-	491	-	22	-	-	-	-	-	-	-	634
IOWA	-	-	-	-	-	-	-	-	-	-	-	43	-	59	-	-	-	-	-	2	-	157
KANSAS	-	400	-	-	-	-	-	-	-	-	-	7	-	44	-	-	-	9	-	-	-	790
KENTUCKY	-	-	-	-	-	-	-	-	-	-	-	2	-	7	-	16	-	-	-	51	-	129
LOUISIANA	-	-	-	-	-	-	-	-	-	-	6,000	-	-	145	-	-	-	-	-	-	6,000	219
MAINE	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	22
MARYLAND	-	169	-	-	-	-	-	-	-	-	-	40	-	203	-	-	-	-	-	-	-	528
MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	-	2	-	135	-	2	-	-	-	-	-	674
MICHIGAN	-	-	-	-	-	3	-	-	-	-	-	-	-	264	-	-	-	-	-	-	-	391
MINNESOTA	6,000	15	-	-	-	-	-	-	-	-	-	21	-	258	-	-	-	-	-	7	6,000	515
MISSISSIPPI	-	430	-	-	-	-	-	-	-	-	-	75	-	20	-	23	-	-	-	-	-	649
MISSOURI	-	2	-	-	-	-	-	-	-	-	-	-	6,000	-	-	-	-	-	-	-	6,000	57
MONTANA	-	44	-	-	-	-	-	-	-	-	-	6	-	31	-	-	-	-	-	-	-	82
NEBRASKA	-	-	-	-	-	-	-	-	-	-	-	439	6,000	53	-	-	-	-	-	-	6,000	493
NEVADA	-	4,500	-	-	-	-	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	4,585
NEW HAMPSHIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
NEW JERSEY	-	53	-	-	-	-	-	-	-	-	-	1	-	197	-	-	-	-	-	-	6,000	394
NEW MEXICO	-	90	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	-	508
NEW YORK	-	-	-	-	-	-	-	-	-	-	-	2	-	134	-	-	-	-	-	-	6,000	189
NORTH CAROLINA	-	5	-	-	-	-	-	-	-	-	-	-	-	111	-	-	-	-	-	-	-	179
NORTH DAKOTA	-	3	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	58
OHIO	-	3	-	-	-	-	-	-	-	-	-	20	-	216	-	1	-	-	-	15	-	547
OKLAHOMA	6,000	59	-	-	-	-	-	-	-	-	-	1	-	15	-	-	-	-	6,000	-	12,000	255
OREGON	6,000	-	-	-	-	-	-	-	-	-	-	400	-	17	-	13	-	-	-	-	6,000	482
PENNSYLVANIA	6,000	10	-	-	-	-	-	-	-	-	-	303	-	193	-	23	-	-	-	-	12,000	1,418
PUERTO RICO	-	128	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	138
SOUTH CAROLINA	-	3	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	94
TENNESSEE	-	24	-	-	-	-	-	-	-	-	-	-	-	32	-	8	-	-	-	14	-	100
TEXAS	6,000	5,007	-	-	-	-	-	-	-	-	-	83	-	789	-	83	-	10	-	1,845	6,000	9,408
UTAH	6,000	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6,000	114
VIRGINIA	-	228	-	-	-	-	-	-	-	-	-	66	-	285	-	-	-	-	-	-	-	604
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	115
WISCONSIN	-	9	-	-	-	-	-	-	-	-	-	161	-	47	-	-	-	-	-	2	-	854
WYOMING	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	5
TOTAL	42,000	18,793	-	-	-	23	-	-	-	-	6,000	7,005	12,000	4,649	-	206	-	19	6,000	2,118	90,000	47,877

TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
BELTMAN/BOOM OPR	-	-	-	5	5	5	2	7	-	-	-	110	110	110	-	22	22
BULLDOZER/MOBILE EQUIP.	1	-	3	24	27	28	17	45	6,000	-	3,700	791	4,491	10,491	1,233	33	375
DRAG/CRANE/SHOVEL OPR	-	-	-	24	24	24	11	35	-	-	-	831	831	831	-	35	35
DREDGE/BARGE/BOAT	-	-	1	2	3	3	1	4	-	-	400	21	421	421	400	10	140
DRILL OPERATOR	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21	21
ELECTRICIAN	-	-	-	2	2	2	1	3	-	-	-	48	48	48	-	24	24
FRONT END LOADER	2	1	1	46	48	50	13	63	12,000	6,000	50	875	6,925	18,925	50	19	378
LABORER	2	-	4	70	74	76	28	104	12,000	-	4,700	1,924	6,624	18,624	1,175	27	245
LOADING MACH. OPR.	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
MECHANIC/MAINTENANCE	1	-	7	72	79	80	45	125	6,000	-	3,600	2,495	6,095	12,095	514	35	151
MINER	-	-	-	4	4	4	1	5	-	-	-	192	192	192	-	48	48
PREP. PLANT OPR.	2	-	4	66	70	72	34	106	12,000	-	9,960	2,201	12,161	24,161	2,490	33	336
RAIL TRANSP. AND HAUL	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SUPERVISOR/FOREMAN	-	-	2	35	37	37	24	61	-	-	1,300	1,153	2,453	2,453	650	33	66
TECH./PROF./CLERICAL	-	-	-	4	4	4	3	7	-	-	-	108	108	108	-	27	27
TRUCK DRIVER	-	-	1	41	42	42	13	55	-	-	300	1,654	1,954	1,954	300	40	47
WELDER/MACHINIST	-	-	-	18	18	18	11	29	-	-	-	403	403	403	-	22	22
N.E.C. OR UNKNOWN	-	-	1	19	20	20	10	30	-	-	50	167	217	217	50	9	11
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194
DREDGE:																	
BELTMAN/BOOM OPR	-	-	-	2	2	2	-	2	-	-	-	61	61	61	-	30	30
BULLDOZER/MOBILE EQUIP.	-	-	-	3	3	3	2	5	-	-	-	14	14	14	-	5	5
DRAG/CRANE/SHOVEL OPR	-	-	-	2	2	2	-	2	-	-	-	251	251	251	-	126	126
DREDGE/BARGE/BOAT	2	-	2	19	21	23	6	29	12,000	-	100	359	459	12,459	50	19	542
FRONT END LOADER	-	-	-	4	4	4	2	6	-	-	-	416	416	416	-	104	104
LABORER	2	-	2	21	23	25	5	30	12,000	-	475	293	768	12,768	238	14	511
LOADING MACH. OPR.	-	-	-	1	1	1	-	1	-	-	-	40	40	40	-	40	40
MECHANIC/MAINTENANCE	-	-	-	12	12	12	3	15	-	-	-	301	301	301	-	25	25
MINER	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
PREP. PLANT OPR.	1	-	2	14	16	17	2	19	6,000	-	640	479	1,119	7,119	320	34	419
SUPERVISOR/FOREMAN	1	-	1	4	5	6	-	6	6,000	-	450	175	625	6,625	450	44	1,104
TRUCK DRIVER	1	-	-	5	5	6	1	7	6,000	-	-	57	57	6,057	-	11	1,010
WELDER/MACHINIST	-	-	2	5	7	7	1	8	-	-	100	60	160	160	50	12	23
N.E.C. OR UNKNOWN	-	-	1	9	10	10	2	12	-	-	270	212	482	482	270	24	48
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393

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TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
BELTMAN/BOOM OPR.	-	-	-	7	7	7	2	9	-	-	-	171	171	171	-	24	24
BULLDOZER/MOBILE EQUIP.	1	-	3	27	30	31	19	50	6,000	-	3,700	805	4,505	10,505	1,233	30	339
DRAG/CRANE/SHOVEL OPR.	-	-	-	26	26	26	11	37	-	-	-	1,082	1,082	1,082	-	42	42
DREDGE/BARGE/BOAT	2	-	3	21	24	26	7	33	12,000	-	500	380	880	12,880	167	18	495
DRILL OPERATOR	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21	21
ELECTRICIAN	-	-	-	2	2	2	1	3	-	-	-	48	48	48	-	24	24
FRONT END LOADER	2	1	1	50	52	54	15	69	12,000	6,000	50	1,291	7,341	19,341	50	26	358
LABORER	4	-	6	91	97	101	33	134	24,000	-	5,175	2,217	7,392	31,392	862	24	311
LOADING MACH. OPR.	-	-	-	2	2	2	1	3	-	-	-	43	43	43	-	22	22
MECHANIC/MAINTENANCE	1	-	7	84	91	92	48	140	6,000	-	3,600	2,796	6,396	12,396	514	33	135
MINER	-	-	-	5	5	5	1	6	-	-	-	193	193	193	-	39	39
PREP. PLANT OPR.	3	-	6	80	86	89	36	125	18,000	-	10,600	2,680	13,280	31,280	1,767	34	351
RAIL TRANSP. AND HAUL.	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SUPERVISOR/FOREMAN	1	-	3	39	42	43	24	67	6,000	-	1,750	1,328	3,078	9,078	583	34	211
TECH./PROF./CLERICAL	-	-	-	4	4	4	3	7	-	-	-	108	108	108	-	27	27
TRUCK DRIVER	1	-	1	46	47	48	14	62	6,000	-	300	1,711	2,011	8,011	300	37	167
WELDER/MACHINIST	-	-	2	23	25	25	12	37	-	-	100	463	563	563	50	20	23
N.E.C. OR UNKNOWN	-	-	2	28	30	30	12	42	-	-	320	379	699	699	160	14	23
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
FRONT END LOADER	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TECH./PROF./CLERICAL	-	-	-	2	2	2	1	3	-	-	-	36	36	36	-	18	18
TRUCK DRIVER	-	-	-	1	1	1	-	1	-	-	-	14	14	14	-	14	14
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17
GRAND TOTAL OR AVERAGE:																	
BELTMAN/BOOM OPR.	-	-	-	7	7	7	2	9	-	-	-	171	171	171	-	24	24
BULLDOZER/MOBILE EQUIP.	1	-	3	27	30	31	19	50	6,000	-	3,700	805	4,505	10,505	1,233	30	339
DRAG/CRANE/SHOVEL OPR.	-	-	-	26	26	26	11	37	-	-	-	1,082	1,082	1,082	-	42	42
DREDGE/BARGE/BOAT	2	-	3	21	24	26	7	33	12,000	-	500	380	880	12,880	167	18	495
DRILL OPERATOR	-	-	-	1	1	1	-	1	-	-	-	21	21	21	-	21	21
ELECTRICIAN	-	-	-	2	2	2	1	3	-	-	-	48	48	48	-	24	24
FRONT END LOADER	2	1	1	50	52	54	16	70	12,000	6,000	50	1,291	7,341	19,341	50	26	358
LABORER	4	-	6	91	97	101	33	134	24,000	-	5,175	2,217	7,392	31,392	862	24	311
LOADING MACH. OPR.	-	-	-	2	2	2	1	3	-	-	-	43	43	43	-	22	22
MECHANIC/MAINTENANCE	1	-	7	84	91	92	48	140	6,000	-	3,600	2,796	6,396	12,396	514	33	135
MINER	-	-	-	5	5	5	1	6	-	-	-	193	193	193	-	39	39
PREP. PLANT OPR.	3	-	6	80	86	89	36	125	18,000	-	10,600	2,680	13,280	31,280	1,767	34	351
RAIL TRANSP. AND HAUL.	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SUPERVISOR/FOREMAN	1	-	3	39	42	43	24	67	6,000	-	1,750	1,328	3,078	9,078	583	34	211
TECH./PROF./CLERICAL	-	-	-	6	6	6	4	10	-	-	-	144	144	144	-	24	24
TRUCK DRIVER	1	-	1	47	48	49	14	63	6,000	-	300	1,725	2,025	8,025	300	37	164
WELDER/MACHINIST	-	-	2	23	25	25	12	37	-	-	100	463	563	563	50	20	23
N.E.C. OR UNKNOWN	-	-	2	28	30	30	12	42	-	-	320	379	699	699	160	14	23
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

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TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
ELECTRICAL	-	-	-	10	10	10	2	12	-	-	-	1,024	1,024	1,024	-	102	102
EXPLODING VESSELS UNDER PRESSURE	1	-	-	2	2	3	-	3	6,000	-	-	8	8	6,008	-	4	2,003
FALLING, ROLLING, OR SLIDING MATERIAL	1	-	-	2	2	3	-	3	6,000	-	-	106	106	6,106	-	53	2,035
FALL OF FACE, RIB, SIDE OR HIGHWALL	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE	-	-	-	2	2	2	-	2	-	-	-	287	287	287	-	144	143
HANDLING MATERIAL	1	1	12	127	140	141	60	201	6,000	6,000	950	3,071	10,021	16,021	79	24	114
HAND TOOLS	-	-	1	45	46	46	47	93	-	-	60	777	837	837	60	17	18
NONPOWERED HAULAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
POWERED HAULAGE	4	-	7	53	60	64	20	84	24,000	-	16,300	2,011	18,311	42,311	2,329	38	661
IGNITION OR EXPLOSION OF GAS OR DUST	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
MACHINERY	-	-	2	47	49	49	38	87	-	-	4,900	1,270	6,170	6,170	2,450	27	126
SLIPS OR FALLS OF PERSONS	-	-	1	126	127	127	28	155	-	-	50	4,024	4,074	4,074	50	32	32
STEPPING OR KNEELING ON OBJECT	-	-	-	11	11	11	3	14	-	-	-	189	189	189	-	17	17
STRIKING OR BUMPING	-	-	-	2	2	2	5	7	-	-	-	10	10	10	-	5	5
OTHER INJURIES	-	-	1	7	8	8	10	18	-	-	1,800	213	2,013	2,013	1,800	30	252
TOTAL OR AVERAGE	8	1	24	436	461	469	215	684	48,000	6,000	24,060	13,013	43,073	91,073	1,002	30	194
DREDGE:																	
ELECTRICAL	-	-	-	3	3	3	-	3	-	-	-	45	45	45	-	15	15
EXPLODING VESSELS UNDER PRESSURE	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
FALLING, ROLLING, OR SLIDING MATERIAL	-	-	1	2	3	3	-	3	-	-	50	60	110	110	50	30	37
HANDLING MATERIAL	-	-	5	24	29	29	6	35	-	-	840	929	1,769	1,769	168	39	61
HAND TOOLS	-	-	1	16	17	17	5	22	-	-	400	401	801	801	400	25	47
POWERED HAULAGE	3	-	1	4	5	8	-	8	18,000	-	400	82	482	18,482	400	20	2,310
MACHINERY	1	-	2	12	14	15	7	22	6,000	-	345	490	835	6,835	172	41	456
SLIPS OR FALLS OF PERSONS	2	-	-	30	30	32	5	37	12,000	-	-	561	561	12,561	-	19	393
STEPPING OR KNEELING ON OBJECT	-	-	-	3	3	3	-	3	-	-	-	17	17	17	-	6	6
STRIKING OR BUMPING	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
OTHER INJURIES	1	-	-	6	6	7	1	8	6,000	-	-	105	105	6,105	-	18	872
TOTAL OR AVERAGE	7	-	10	102	112	119	24	143	42,000	-	2,035	2,719	4,754	46,754	204	27	393

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TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE, MINING:																	
ELECTRICAL	-	-	-	13	13	13	2	15	-	-	-	1,069	1,069	1,069	-	82	82
EXPLODING VESSELS UNDER PRESSURE	1	-	-	3	3	4	-	4	6,000	-	-	28	28	6,028	-	9	1,507
FALLING, ROLLING, OR SLIDING MATERIAL	1	-	1	4	5	6	-	6	6,000	-	50	166	216	6,216	50	42	1,036
FALL OF FACE, RIB, SIDE OR HIGHWALL	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE	-	-	-	2	2	2	-	2	-	-	-	287	287	287	-	144	144
HANDLING MATERIAL	1	1	17	151	169	170	66	236	6,000	6,000	1,790	4,000	11,790	17,790	105	26	105
HAND TOOLS	-	-	2	61	63	63	52	115	-	-	460	1,178	1,638	1,638	230	19	26
NONPOWERED HAULAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
POWERED HAULAGE	7	-	8	57	65	72	20	92	42,000	-	16,700	2,093	18,793	60,793	2,088	37	844
IGNITION OR EXPLOSION OF GAS OR DUST	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
MACHINERY	1	-	4	59	63	64	45	109	6,000	-	5,245	1,760	7,005	13,005	1,311	30	203
SLIPS OR FALLS OF PERSONS	2	-	1	156	157	159	33	192	12,000	-	50	4,585	4,635	16,635	50	29	105
STEPPING OR KNEELING ON OBJECT	-	-	-	14	14	14	3	17	-	-	-	206	206	206	-	15	15
STRIKING OR BUMPING	-	-	-	3	3	3	5	8	-	-	-	19	19	19	-	6	6
OTHER INJURIES	1	-	1	13	14	15	11	26	6,000	-	1,800	318	2,118	8,118	1,800	24	541
TOTAL OR AVERAGE	15	1	34	538	573	588	239	827	90,000	6,000	26,095	15,732	47,827	137,827	768	29	234
OFFICE:																	
HANDLING MATERIAL	-	-	-	2	2	2	-	2	-	-	-	36	36	36	-	18	18
SLIPS OR FALLS OF PERSONS	-	-	-	1	1	1	1	2	-	-	-	14	14	14	-	14	14
STEPPING OR KNEELING ON OBJECT	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	3	3	3	2	5	-	-	-	50	50	50	-	17	17

TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
GRAND TOTAL OR AVERAGE:																	
ELECTRICAL	-	-	-	13	13	13	2	15	-	-	-	1,069	1,069	1,069	-	82	82
EXPLODING VESSELS UNDER PRESSURE	1	-	-	3	3	4	-	4	6,000	-	-	28	28	6,028	-	9	1,507
FALLING, ROLLING, OR SLIDING MATERIAL	1	-	1	4	5	6	-	6	6,000	-	50	166	216	6,216	50	42	1,036
FALL OF FACE, RIB, SIDE OR HIGHWALL	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE	-	-	-	2	2	2	-	2	-	-	-	287	287	287	-	144	144
HANDLING MATERIAL	1	1	17	153	171	172	66	238	6,000	6,000	1,790	4,036	11,826	17,826	105	26	104
HAND TOOLS	-	-	2	61	63	63	52	115	-	-	460	1,178	1,638	1,638	230	19	26
NONPOWERED HAULAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
POWERED HAULAGE	7	-	8	57	65	72	20	92	42,000	-	16,700	2,093	18,793	60,793	2,088	37	844
IGNITION OR EXPLOSION OF GAS OR DUST	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
MACHINERY	1	-	4	59	63	64	45	109	6,000	-	5,245	1,760	7,005	13,005	1,311	30	203
SLIPS OR FALLS OF PERSONS	2	-	1	157	158	160	34	194	12,000	-	50	4,599	4,649	16,649	50	29	104
STEPPING OR KNEELING ON OBJECT	-	-	-	14	14	14	4	18	-	-	-	206	206	206	-	15	15
STRIKING OR BUMPING	-	-	-	3	3	3	5	8	-	-	-	19	19	19	-	6	6
OTHER INJURIES	1	-	1	13	14	15	11	26	6,000	-	1,800	318	2,118	8,118	1,800	24	541
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

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TABLE 15. – NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL:																	
EYE	–	–	–	2	2	2	–	2	–	–	–	2	2	2	–	1	1
FACE, NEC	–	–	–	1	1	1	1	2	–	–	–	2	2	2	–	2	2
HEAD, NEC	–	–	–	1	1	1	–	1	–	–	–	10	10	10	–	10	10
HAND	–	–	–	4	4	4	1	5	–	–	–	93	93	93	–	23	23
UPPER EXTREMITIES, NEC	–	–	–	1	1	1	–	1	–	–	–	14	14	14	–	14	14
LOWER EXTREMITIES, NEC	–	–	–	1	1	1	–	1	–	–	–	66	66	66	–	66	66
BODY SYSTEMS	–	–	–	2	2	2	–	2	–	–	–	609	609	609	–	304	304
MULTIPLE PARTS OF BODY	–	–	–	1	1	1	–	1	–	–	–	273	273	273	–	273	273
TOTAL OR AVERAGE	–	–	–	13	13	13	2	15	–	–	–	1,069	1,069	1,069	–	82	82
EXPLODING VESSELS UNDER PRESSURE:																	
FINGER(S)	–	–	–	1	1	1	–	1	–	–	–	5	5	5	–	5	5
BODY SYSTEMS	–	–	–	1	1	1	–	1	–	–	–	20	20	20	–	20	20
MULTIPLE PARTS OF BODY	1	–	–	1	1	2	–	2	6,000	–	–	3	3	6,003	–	3	3,002
TOTAL OR AVERAGE	1	–	–	3	3	4	–	4	6,000	–	–	28	28	6,028	–	9	1,507
FALLING, ROLLING, OR SLIDING MATERIAL:																	
HEAD, NEC	–	–	–	1	1	1	–	1	–	–	–	6	6	6	–	6	6
PELVIC REGION	1	–	1	–	1	2	–	2	6,000	–	50	–	50	6,050	50	–	3,025
ANKLE	–	–	–	1	1	1	–	1	–	–	–	100	100	100	–	100	100
LOWER EXTREMITIES, NEC	–	–	–	1	1	1	–	1	–	–	–	9	9	9	–	9	9
MULTIPLE PARTS OF BODY	–	–	–	1	1	1	–	1	–	–	–	51	51	51	–	51	51
TOTAL OR AVERAGE	1	–	1	4	5	6	–	6	6,000	–	50	166	216	6,216	50	42	1,036
FALL OF FACE, RIB, SIDE OR HIGHWALL:																	
MULTIPLE PARTS OF BODY	1	–	–	–	–	1	–	1	6,000	–	–	–	–	6,000	–	–	6,000
TOTAL OR AVERAGE	1	–	–	–	–	1	–	1	6,000	–	–	–	–	6,000	–	–	6,000
FIRE:																	
MULTIPLE PARTS OF BODY	–	–	–	2	2	2	–	2	–	–	–	287	287	287	–	144	144
TOTAL OR AVERAGE	–	–	–	2	2	2	–	2	–	–	–	287	287	287	–	144	144

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
HANDLING MATERIAL:																	
EAR	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
EYE	-	-	-	6	6	6	4	10	-	-	-	8	8	8	-	1	1
MOUTH/TEETH/TONGUE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NOSE	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SCALP	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
SKULL	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FACE, NEC	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-	-
HEAD, NEC	-	-	-	3	3	3	4	7	-	-	-	93	93	93	-	31	31
NECK	-	-	-	2	2	2	-	2	-	-	-	9	9	9	-	4	4
ELBOW	-	-	-	2	2	2	-	2	-	-	-	10	10	10	-	5	5
WRIST	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HAND	-	-	-	5	5	5	6	11	-	-	-	15	15	15	-	3	3
FINGER(S)	-	-	4	19	23	23	24	47	-	-	740	291	1,031	1,031	185	15	45
UPPER EXTREMITIES, NEC	-	-	-	1	1	1	2	3	-	-	-	44	44	44	-	44	44
BACK	-	-	-	57	57	57	7	64	-	-	-	1,535	1,535	1,535	-	27	27
CHEST	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
PELVIC REGION	-	-	12	6	18	18	1	19	-	-	600	124	724	724	50	21	40
SHOULDER(S)	-	-	-	4	4	4	-	4	-	-	-	53	53	53	-	13	13
TRUNK, NEC	-	-	-	1	1	1	1	2	-	-	-	5	5	5	-	5	5
KNEE	-	-	-	8	8	8	1	9	-	-	-	185	185	185	-	23	23
LOWER LEG	-	-	-	2	2	2	-	2	-	-	-	40	40	40	-	20	20
ANKLE	-	-	-	3	3	3	-	3	-	-	-	126	126	126	-	42	42
FOOT	-	-	-	3	3	3	1	4	-	-	-	75	75	75	-	25	25
TOE(S)	-	-	1	5	6	6	1	7	-	-	450	33	483	483	450	7	80
LOWER EXTREMITIES, NEC	-	-	-	7	7	7	1	8	-	-	-	283	283	283	-	40	40
BODY SYSTEMS	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE PARTS OF BODY	-	1	-	15	16	16	2	18	-	6,000	-	1,094	7,094	7,094	-	73	443
TOTAL OR AVERAGE	1	1	17	153	171	172	66	238	6,000	6,000	1,790	4,036	11,826	17,826	105	26	104

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TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
HAND TOOLS:																	
EAR	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
EYE	-	-	-	6	6	6	3	9	-	-	-	20	20	20	-	3	3
JAW	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	1	1	1	3	4	-	-	-	1	1	1	-	1	1
NOSE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
SKULL	-	-	-	1	1	1	-	1	-	-	-	181	181	181	-	181	181
FACE, NEC	-	-	-	1	1	1	1	2	-	-	-	1	1	1	-	1	1
HEAD, NEC	-	-	-	2	2	2	3	5	-	-	-	10	10	10	-	5	5
NECK	-	-	-	2	2	2	2	4	-	-	-	11	11	11	-	6	6
ELBOW	-	-	-	2	2	2	1	3	-	-	-	14	14	14	-	7	7
FOREARM	-	-	-	1	1	1	4	5	-	-	-	35	35	35	-	35	35
WRIST	-	-	-	2	2	2	2	4	-	-	-	18	18	18	-	9	9
HAND	-	-	-	3	3	3	4	7	-	-	-	11	11	11	-	4	4
FINGER(S)	-	-	2	11	13	13	15	28	-	-	460	210	670	670	230	19	52
UPPER EXTREMITIES, NEC	-	-	-	2	2	2	1	3	-	-	-	35	35	35	-	18	18
BACK	-	-	-	6	6	6	3	9	-	-	-	58	58	58	-	10	10
CHEST	-	-	-	1	1	1	2	3	-	-	-	2	2	2	-	2	2
PELVIC REGION	-	-	-	1	1	1	1	2	-	-	-	49	49	49	-	49	49
SHOULDER(S)	-	-	-	2	2	2	-	2	-	-	-	32	32	32	-	16	16
TRUNK, NEC	-	-	-	1	1	1	-	1	-	-	-	10	10	10	-	10	10
THIGH	-	-	-	2	2	2	3	5	-	-	-	30	30	30	-	15	15
KNEE	-	-	-	5	5	5	-	5	-	-	-	201	201	201	-	40	40
LOWER LEG	-	-	-	4	4	4	1	5	-	-	-	147	147	147	-	37	37
ANKLE	-	-	-	1	1	1	-	1	-	-	-	76	76	76	-	76	76
FOOT	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
MULTIPLE PARTS OF BODY	-	-	-	2	2	2	-	2	-	-	-	8	8	8	-	4	4
TOTAL OR AVERAGE	-	-	2	61	63	63	52	115	-	-	460	1,178	1,638	1,638	230	19	26
NONPOWERED HAULAGE:																	
HAND	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PELVIC REGION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
POWERED HAULAGE:																	
EYE	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
MOUTH/TEETH/TONGUE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SCALP	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
HEAD, NEC	1	-	-	1	1	2	2	4	6,000	-	-	5	5	6,005	-	5	3,002
NECK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
UPPER ARM	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
FOREARM	-	-	1	1	2	2	1	3	-	-	3,600	44	3,644	3,644	3,600	44	1,822
WRIST	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
HAND	-	-	-	1	1	1	1	2	-	-	-	118	118	118	-	118	118
FINGER(S)	-	-	4	4	8	8	7	15	-	-	2,000	42	2,042	2,042	500	10	255
UPPER EXTREMITIES, NEC	-	-	2	4	6	6	2	8	-	-	8,100	210	8,310	8,310	4,050	52	1,385
BACK	-	-	-	12	12	12	2	14	-	-	-	255	255	255	-	21	21
CHEST	-	-	-	1	1	1	1	2	-	-	-	9	9	9	-	9	9
SHOULDER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TRUNK, NEC	-	-	-	1	1	1	-	1	-	-	-	18	18	18	-	18	18
THIGH	-	-	-	3	3	3	-	3	-	-	-	31	31	31	-	10	10
KNEE	-	-	-	1	1	1	1	2	-	-	-	3	3	3	-	3	3
LOWER LEG	-	-	1	1	2	2	-	2	-	-	3,000	69	3,069	3,069	3,000	69	1,534
ANKLE	-	-	-	1	1	1	-	1	-	-	-	59	59	59	-	59	59
FOOT	-	-	-	2	2	2	-	2	-	-	-	95	95	95	-	48	48
LOWER EXTREMITIES, NEC	-	-	-	6	6	6	-	6	-	-	-	198	198	198	-	33	33
BODY SYSTEMS	3	-	-	-	-	3	-	3	18,000	-	-	-	-	18,000	-	-	6,000
MULTIPLE PARTS OF BODY	2	-	-	13	13	15	1	16	12,000	-	-	911	911	12,911	-	70	861
TOTAL OR AVERAGE	7	-	8	57	65	72	20	92	42,000	-	16,700	2,093	18,793	60,793	2,088	37	844
IGNITION OR EXPLOSION OF GAS OR DUST:																	
HAND	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
TOTAL OR AVERAGE	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12

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TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
MACHINERY:																	
EAR	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
EYE	-	-	-	11	11	11	21	32	-	-	-	79	79	79	-	7	7
MOUTH/TEETH/TONGUE	-	-	-	2	2	2	1	3	-	-	-	5	5	5	-	2	2
NOSE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FACE, NEC	-	-	-	1	1	1	2	3	-	-	-	18	18	18	-	18	18
HEAD, NEC	-	-	-	2	2	2	3	5	-	-	-	8	8	8	-	4	4
NECK	-	-	-	1	1	1	1	2	-	-	-	22	22	22	-	22	22
ELBOW	-	-	-	3	3	3	-	3	-	-	-	17	17	17	-	6	6
FOREARM	-	-	-	1	1	1	1	2	-	-	-	15	15	15	-	15	15
WRIST	-	-	-	1	1	1	3	4	-	-	-	45	45	45	-	45	45
HAND	-	-	-	5	5	5	1	6	-	-	-	85	85	85	-	17	17
FINGER(S)	-	-	3	5	8	8	6	14	-	-	745	72	817	817	248	14	102
UPPER EXTREMITIES, NEC	-	-	1	2	3	3	-	3	-	-	4,500	33	4,533	4,533	4,500	16	1,511
BACK	-	-	-	2	2	2	-	2	-	-	-	62	62	62	-	31	31
CHEST	-	-	-	2	2	2	-	2	-	-	-	8	8	8	-	4	4
TRUNK, NEC	-	-	-	1	1	1	1	2	-	-	-	384	384	384	-	384	384
THIGH	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
KNEE	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
LOWER LEG	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
ANKLE	-	-	-	1	1	1	-	1	-	-	-	159	159	159	-	159	159
FOOT	-	-	-	7	7	7	-	7	-	-	-	156	156	156	-	22	22
LOWER EXTREMITIES, NEC	-	-	-	4	4	4	3	7	-	-	-	156	156	156	-	39	39
BODY SYSTEMS	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
MULTIPLE PARTS OF BODY	1	-	-	4	4	5	-	5	6,000	-	-	399	399	6,399	-	100	1,280
TOTAL OR AVERAGE	1	-	4	59	63	64	45	109	6,000	-	5,245	1,760	7,005	13,005	1,311	30	203
SLIPS OR FALLS OF PERSONS:																	
SKULL	-	-	-	1	1	1	-	1	-	-	-	54	54	54	-	54	54
HEAD, NEC	-	-	-	4	4	4	-	4	-	-	-	34	34	34	-	8	8
NECK	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
ELBOW	-	-	-	4	4	4	1	5	-	-	-	23	23	23	-	6	6
FOREARM	-	-	-	2	2	2	-	2	-	-	-	88	88	88	-	44	44
WRIST	-	-	-	7	7	7	4	11	-	-	-	110	110	110	-	16	16
HAND	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
FINGER(S)	-	-	-	3	3	3	2	5	-	-	-	161	161	161	-	54	54
UPPER EXTREMITIES, NEC	-	-	-	6	-	6	1	7	-	-	-	167	167	167	-	28	28
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	32	32	32	4	36	-	-	-	1,072	1,072	1,072	-	34	34
CHEST	-	-	-	7	7	7	2	9	-	-	-	69	69	69	-	10	10
PELVIC REGION	-	-	1	3	4	4	1	5	-	-	50	86	136	136	50	29	34
SHOULDER(S)	-	-	-	5	5	5	2	7	-	-	-	66	66	66	-	13	13
TRUNK, NEC	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
THIGH	-	-	-	3	3	3	-	3	-	-	-	90	90	90	-	30	30
KNEE	-	-	-	22	22	22	2	24	-	-	-	399	399	399	-	18	18
LOWER LEG	-	-	-	6	6	6	4	10	-	-	-	137	137	137	-	23	23
ANKLE	-	-	-	15	15	15	4	19	-	-	-	338	338	338	-	23	23
FOOT	-	-	-	8	8	8	-	8	-	-	-	541	541	541	-	68	68
LOWER EXTREMITIES, NEC	-	-	-	7	7	7	1	8	-	-	-	141	141	141	-	20	20
BODY SYSTEMS	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	18	18	18	4	22	-	-	-	1,013	1,013	1,013	-	56	56
TOTAL OR AVERAGE	2	-	1	157	158	160	34	194	12,000	-	50	4,599	4,649	16,649	50	29	104

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TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
STEPPING OR KNEELING ON OBJECT:																	
BACK	-	-	-	3	3	3	-	3	-	-	-	69	69	69	-	23	23
KNEE	-	-	-	2	2	2	1	3	-	-	-	45	45	45	-	22	22
ANKLE	-	-	-	7	7	7	1	8	-	-	-	86	86	86	-	12	12
FOOT	-	-	-	2	2	2	2	4	-	-	-	6	6	6	-	3	3
TOTAL OR AVERAGE	-	-	-	14	14	14	4	18	-	-	-	206	206	206	-	15	15
STRIKING OR BUMPING:																	
EYE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HEAD, NEC	-	-	-	1	1	1	2	3	-	-	-	9	9	9	-	9	9
NECK	-	-	-	1	1	1	-	1	-	-	-	6	6	6	-	6	6
CHEST	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
KNEE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE	-	-	-	3	3	3	5	8	-	-	-	19	19	19	-	6	6
OTHER INJURIES:																	
EYE	-	-	1	3	4	4	7	11	-	-	1,800	8	1,808	1,808	1,800	3	452
NOSE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HAND	-	-	-	2	2	2	-	2	-	-	-	54	54	54	-	27	27
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	2	3	-	-	-	30	30	30	-	30	30
KNEE	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
BODY SYSTEMS	-	-	-	2	2	2	-	2	-	-	-	7	7	7	-	4	4
MULTIPLE PARTS OF BODY	1	-	-	1	1	2	-	2	6,000	-	-	152	152	6,152	-	152	3,076
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE	1	-	1	13	14	15	11	26	6,000	-	1,800	318	2,118	8,118	1,800	24	541

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TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
TOTAL OR AVERAGE:																	
EAR	-	-	-	1	1	1	2	3	-	-	-	8	8	8	-	8	8
EYE	-	-	1	29	30	30	36	66	-	-	1,800	118	1,918	1,918	1,800	4	64
JAW	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
MOUTH/TEETH/TONGUE	-	-	-	3	3	3	7	10	-	-	-	6	6	6	-	2	2
NOSE	-	-	-	2	2	2	3	5	-	-	-	2	2	2	-	1	1
SCALP	-	-	-	2	2	2	1	3	-	-	-	3	3	3	-	2	2
SKULL	1	-	-	2	2	3	-	3	6,000	-	-	235	235	6,235	-	118	2,078
FACE, NEC	-	-	-	3	3	3	9	12	-	-	-	21	21	21	-	7	7
HEAD, NEC	1	-	-	15	15	16	14	30	6,000	-	-	175	175	6,175	-	12	386
NECK	1	-	-	7	7	8	3	11	6,000	-	-	52	52	6,052	-	7	756
UPPER ARM	-	-	-	1	1	1	-	1	-	-	-	17	17	17	-	17	17
ELBOW	-	-	-	12	12	12	2	14	-	-	-	66	66	66	-	6	6
FOREARM	-	-	1	5	6	6	6	12	-	-	3,600	182	3,782	3,782	3,600	36	630
WRIST	-	-	-	11	11	11	10	21	-	-	-	177	177	177	-	16	16
HAND	-	-	-	23	23	23	14	37	-	-	-	402	402	402	-	17	17
FINGER(S)	-	-	13	43	56	56	55	111	-	-	3,945	781	4,726	4,726	303	18	84
UPPER EXTREMITIES, NEC	-	-	3	16	19	19	6	25	-	-	12,600	503	13,103	13,103	4,200	31	690
ABDOMEN	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	113	113	113	18	131	-	-	-	3,081	3,081	3,081	-	27	27
CHEST	-	-	-	12	12	12	7	19	-	-	-	91	91	91	-	8	8
PELVIC REGION	1	-	14	10	24	25	4	29	6,000	-	700	259	959	6,959	50	26	278
SHOULDER(S)	-	-	-	11	11	11	3	14	-	-	-	151	151	151	-	14	14
TRUNK, NEC	-	-	-	6	6	6	3	9	-	-	-	420	420	420	-	70	70
THIGH	-	-	-	9	9	9	3	12	-	-	-	155	155	155	-	17	17
KNEE	-	-	-	42	42	42	5	47	-	-	-	876	876	876	-	21	21
LOWER LEG	-	-	1	14	15	15	5	20	-	-	3,000	394	3,394	3,394	3,000	28	226
ANKLE	-	-	-	29	29	29	5	34	-	-	-	944	944	944	-	33	33
FOOT	-	-	-	23	23	23	3	26	-	-	-	890	890	890	-	39	39
TOE(S)	-	-	1	5	6	6	1	7	-	-	450	33	483	483	450	7	80
LOWER EXTREMITIES, NEC	-	-	-	26	26	26	5	31	-	-	-	853	853	853	-	33	33
BODY SYSTEMS	5	-	-	6	6	11	1	12	30,000	-	-	652	652	30,652	-	109	2,787
MULTIPLE PARTS OF BODY	6	1	-	58	59	65	7	72	36,000	6,000	-	4,191	10,191	46,191	-	72	711
UNCLASSIFIED	-	-	-	2	2	2	-	2	-	-	-	44	44	44	-	22	22
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL:																	
BURN/SCALD (NOT CHEM.)	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
CHEMICAL BURN	-	-	-	1	1	1	-	1	-	-	-	1	1	1	-	1	1
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
RADIATION/ULTRA VIOLET	-	-	-	4	4	4	2	6	-	-	-	111	111	111	-	28	28
TOTAL OR AVERAGE	-	-	-	13	13	13	2	15	-	-	-	1,069	1,069	1,069	-	82	82
EXPLODING VESSELS UNDER PRESSURE:																	
CONTUSION OR BRUISE	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
CUT OR PUNCTURE	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
POISONING (SYSTEMIC)	-	-	-	1	1	1	-	1	-	-	-	20	20	20	-	20	20
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
TOTAL OR AVERAGE	1	-	-	3	3	4	-	4	6,000	-	-	28	28	6,028	-	9	1,507
FALLING, ROLLING, OR SLIDING MATERIAL:																	
CONTUSION OR BRUISE	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FRACTURE	-	-	-	2	2	2	-	2	-	-	-	109	109	109	-	54	54
HERNIA (NOT DISC)	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
MULTIPLE INJURIES	-	-	-	2	2	2	-	2	-	-	-	57	57	57	-	28	28
TOTAL OR AVERAGE	1	-	1	4	5	6	-	6	6,000	-	50	166	216	6,216	50	42	1,036
FALL OF FACE, RIB, SIDE OR HIGHWALL:																	
CONTUSION OR BRUISE	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FIRE:																	
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	278	278	278	-	278	278
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	9	9	9	-	9	9
TOTAL OR AVERAGE	-	-	-	2	2	2	-	2	-	-	-	287	287	287	-	144	144

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TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
HANDLING MATERIAL:																	
AMPUTATION/ENUCLEATION	-	-	5	-	5	5	-	5	-	-	1,190	-	1,190	1,190	238	-	238
BURN/SCALD (NOT CHEM.)	-	-	-	5	5	5	1	6	-	-	-	285	285	285	-	57	57
CHEMICAL BURN	-	-	-	1	1	1	2	3	-	-	-	3	3	3	-	3	3
CONTUSION OR BRUISE	-	-	-	12	12	12	15	27	-	-	-	114	114	114	-	10	10
CUT OR PUNCTURE	-	-	-	17	17	17	23	40	-	-	-	145	145	145	-	9	9
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	1	1	1	-	1	-	-	-	34	34	34	-	34	34
DUST IN EYE	-	-	-	3	3	3	1	4	-	-	-	4	4	4	-	1	1
FRACTURE	1	-	-	9	9	10	1	11	6,000	-	-	391	391	6,391	-	43	639
HERNIA (NOT DISC)	-	-	12	2	14	14	-	14	-	-	600	77	677	677	50	38	48
POISONING (SYSTEMIC)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
SCRATCH/ABRASION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	72	72	72	9	81	-	-	-	1,840	1,840	1,840	-	26	26
MULTIPLE INJURIES	-	1	-	12	13	13	7	20	-	6,000	-	388	6,388	6,388	-	32	491
OTHER INJURY, NEC	-	-	-	4	4	4	-	4	-	-	-	233	233	233	-	58	58
UNCLASSIFIED (NO DATA)	-	-	-	14	14	14	5	19	-	-	-	514	514	514	-	37	37
TOTAL OR AVERAGE	1	1	17	153	171	172	66	238	6,000	6,000	1,790	4,036	11,826	17,826	105	26	104
HAND TOOLS:																	
AMPUTATION/ENUCLEATION	-	-	2	-	2	2	-	2	-	-	460	-	460	460	230	-	230
CONTUSION OR BRUISE	-	-	-	11	11	11	6	17	-	-	-	145	145	145	-	13	13
CUT OR PUNCTURE	-	-	-	16	16	16	24	40	-	-	-	133	133	133	-	8	8
DISLOCATION	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
DUST IN EYE	-	-	-	2	2	2	3	5	-	-	-	4	4	4	-	2	2
FRACTURE	-	-	-	8	8	8	11	19	-	-	-	419	419	419	-	52	52
HERNIA (NOT DISC)	-	-	-	1	1	1	-	1	-	-	-	49	49	49	-	49	49
STRAIN/SPRAIN	-	-	-	10	10	10	3	13	-	-	-	148	148	148	-	15	15
MULTIPLE INJURIES	-	-	-	6	6	6	2	8	-	-	-	126	126	126	-	21	21
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	73	73	73	-	73	73
UNCLASSIFIED (NO DATA)	-	-	-	6	6	6	2	8	-	-	-	81	81	81	-	14	14
TOTAL OR AVERAGE	-	-	2	61	63	63	52	115	-	-	460	1,178	1,638	1,638	230	19	26
NONPOWERED HAULAGE:																	
MULTIPLE INJURIES	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-

TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
POWERED HAULAGE:																	
AMPUTATION/ENUCLEATION	-	-	8	-	8	8	-	8	-	-	16,700	-	16,700	16,700	2,088	-	2,088
ASPHYXIATION/DROWNING	3	-	-	-	3	3	-	3	18,000	-	-	-	-	18,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	2	-	-	8	8	10	5	15	12,000	-	-	410	410	12,410	-	51	1,241
CUT OR PUNCTURE	-	-	-	10	10	10	4	14	-	-	-	153	153	153	-	15	15
FRACTURE	-	-	-	7	7	7	2	9	-	-	-	425	425	425	-	61	61
STRAIN/SPRAIN	-	-	-	9	9	9	2	11	-	-	-	171	171	171	-	19	19
MULTIPLE INJURIES	2	-	-	14	14	16	3	19	12,000	-	-	805	805	12,805	-	58	800
UNCLASSIFIED (NO DATA)	-	-	-	8	8	8	3	11	-	-	-	124	124	124	-	16	16
TOTAL OR AVERAGE	7	-	8	57	65	72	20	92	42,000	-	16,700	2,093	18,793	60,793	2,088	37	844
IGNITION OR EXPLOSION OF GAS OR DUST:																	
BURN/SCALD (NOT CHEM.)	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
TOTAL OR AVERAGE	-	-	-	2	2	2	-	2	-	-	-	23	23	23	-	12	12
MACHINERY:																	
AMPUTATION/ENUCLEATION	-	-	4	-	4	4	-	4	-	-	5,245	-	5,245	5,245	1,311	-	1,311
BURN/SCALD (NOT CHEM.)	-	-	-	4	4	4	5	9	-	-	-	89	89	89	-	22	22
CHEMICAL BURN	-	-	-	1	1	1	-	1	-	-	-	3	3	3	-	3	3
CONTUSION OR BRUISE	-	-	-	6	6	6	4	10	-	-	-	114	114	114	-	19	19
CUT OR PUNCTURE	-	-	-	10	10	10	14	24	-	-	-	103	103	103	-	10	10
DUST IN EYE	-	-	-	3	3	3	5	8	-	-	-	3	3	3	-	1	1
FRACTURE	-	-	-	13	13	13	1	14	-	-	-	519	519	519	-	40	40
POISONING (SYSTEMIC)	-	-	-	1	1	1	-	1	-	-	-	16	16	16	-	16	16
RADIATION/ULTRA VIOLET	-	-	-	4	4	4	6	10	-	-	-	4	4	4	-	1	1
SCRATCH/ABRASION	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-
STRAIN/SPRAIN	-	-	-	5	5	5	1	6	-	-	-	291	291	291	-	58	58
MULTIPLE INJURIES	1	-	-	9	9	10	3	13	6,000	-	-	207	207	6,207	-	23	621
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	25	25	25	-	25	25
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	3	5	-	-	-	386	386	386	-	193	193
TOTAL OR AVERAGE	1	-	4	59	63	64	45	109	6,000	-	5,245	1,760	7,005	13,005	1,311	30	203
SLIPS OR FALLS OF PERSONS:																	
ASPHYXIATION/DROWNING	2	-	-	-	-	2	-	2	12,000	-	-	-	-	12,000	-	-	6,000
CONTUSION OR BRUISE	-	-	-	23	23	23	8	31	-	-	-	345	345	345	-	15	15
CUT OR PUNCTURE	-	-	-	7	7	7	5	12	-	-	-	79	79	79	-	11	11
DISLOCATION	-	-	-	3	3	3	-	3	-	-	-	55	55	55	-	18	18
FRACTURE	-	-	-	29	29	29	3	32	-	-	-	1,774	1,774	1,774	-	61	61
HERNIA (NOT DISC)	-	-	1	-	1	1	-	1	-	-	50	-	50	50	50	-	50
SCRATCH/ABRASION	-	-	-	1	1	1	1	2	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	49	49	49	10	59	-	-	-	1,188	1,188	1,188	-	24	24
MULTIPLE INJURIES	-	-	-	17	17	17	4	21	-	-	-	466	466	466	-	27	27
OTHER INJURY, NEC	-	-	-	1	1	1	-	1	-	-	-	102	102	102	-	102	102
UNCLASSIFIED (NO DATA)	-	-	-	27	27	27	3	30	-	-	-	582	582	582	-	22	22
TOTAL OR AVERAGE	2	-	1	157	158	160	34	194	12,000	-	50	4,599	4,649	16,649	50	29	104

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TABLE 16. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
STEPPING OR KNEELING ON OBJECT:																	
CONTUSION OR BRUISE	-	-	-	1	1	1	-	1	-	-	-	2	2	2	-	2	2
CUT OR PUNCTURE	-	-	-	1	1	1	2	3	-	-	-	4	4	4	-	4	4
FRACTURE	-	-	-	1	1	1	1	2	-	-	-	49	49	49	-	49	49
STRAIN/SPRAIN	-	-	-	11	11	11	1	12	-	-	-	151	151	151	-	14	14
TOTAL OR AVERAGE	-	-	-	14	14	14	4	18	-	-	-	206	206	206	-	15	15
STRIKING OR BUMPING:																	
CUT OR PUNCTURE	-	-	-	1	1	1	3	4	-	-	-	9	9	9	-	9	9
FRACTURE	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	2	2	2	-	2	-	-	-	10	10	10	-	5	5
TOTAL OR AVERAGE	-	-	-	3	3	3	5	8	-	-	-	19	19	19	-	6	6
OTHER INJURIES:																	
AMPUTATION/ENUCLEATION	-	-	1	-	1	1	-	1	-	-	1,800	-	1,800	1,800	1,800	-	1,800
CHEMICAL BURN	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	7	7	7	-	7	7
CUT OR PUNCTURE	-	-	-	2	2	2	1	3	-	-	-	49	49	49	-	24	24
DUST IN EYE	-	-	-	2	2	2	6	8	-	-	-	6	6	6	-	3	3
POISONING (SYSTEMIC)	-	-	-	2	2	2	-	2	-	-	-	7	7	7	-	4	4
STRAIN/SPRAIN	-	-	-	3	3	3	1	4	-	-	-	53	53	53	-	18	18
MULTIPLE INJURIES	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
UNCLASSIFIED (NO DATA)	-	-	-	3	3	3	1	4	-	-	-	196	196	196	-	65	65
TOTAL OR AVERAGE	1	-	1	13	14	15	11	26	6,000	-	1,800	318	2,118	8,118	1,800	24	541
TOTAL OR AVERAGE:																	
AMPUTATION/ENUCLEATION	-	-	20	-	20	20	-	20	-	-	25,395	-	25,395	25,395	1,270	-	1,270
ASPHYXIATION/DROWNING	5	-	-	-	-	5	-	5	30,000	-	-	-	-	30,000	-	-	6,000
BURN/SCALD (NOT CHEM.)	-	-	-	14	14	14	7	21	-	-	-	691	691	691	-	49	49
CHEMICAL BURN	1	-	-	3	3	4	2	6	6,000	-	-	7	7	6,007	-	2	1,502
CONCUSSION (CEREBRAL)	-	-	-	1	1	1	-	1	-	-	-	5	5	5	-	5	5
CONTUSION OR BRUISE	5	-	-	62	62	67	39	106	30,000	-	-	1,137	1,137	31,137	-	18	465
CUT OR PUNCTURE	-	-	-	65	65	65	76	141	-	-	-	680	680	680	-	10	10
DERMATITIS	-	-	-	1	1	1	-	1	-	-	-	8	8	8	-	8	8
DISLOCATION	-	-	-	4	4	4	1	5	-	-	-	89	89	89	-	22	22
DUST IN EYE	-	-	-	10	10	10	15	25	-	-	-	17	17	17	-	2	2
ELECTRIC SHOCK	-	-	-	2	2	2	-	2	-	-	-	609	609	609	-	304	304
ELECT. BURN (CONTACT)	-	-	-	4	4	4	-	4	-	-	-	332	332	332	-	83	83
FRACTURE	1	-	-	69	69	70	21	91	6,000	-	-	3,686	3,686	9,686	-	53	138
HERNIA (NOT DISC)	-	-	14	3	17	17	-	17	-	-	700	126	826	826	50	42	49
POISONING (SYSTEMIC)	-	-	-	4	4	4	1	5	-	-	-	43	43	43	-	11	11
RADIATION/ULTRA VIOLET	-	-	-	8	8	8	8	16	-	-	-	115	115	115	-	14	14
SCRATCH/ABRASION	-	-	-	1	1	1	5	6	-	-	-	8	8	8	-	8	8
STRAIN/SPRAIN	-	-	-	159	159	159	27	186	-	-	-	3,842	3,842	3,842	-	24	24
MULTIPLE INJURIES	3	-	-	62	63	66	21	87	18,000	6,000	-	2,061	8,061	26,061	-	33	395
OTHER INJURY, NEC	-	-	-	7	7	7	-	7	-	-	-	433	433	433	-	62	62
UNCLASSIFIED (NO DATA)	-	-	-	62	62	62	18	80	-	-	-	1,893	1,893	1,893	-	31	31
TOTAL OR AVERAGE	15	1	34	541	576	591	241	832	90,000	6,000	26,095	15,782	47,877	137,877	768	29	233

TABLE 17. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION, MINERAL INDUSTRY AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTOXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES
SURFACE MINES:								
STRIP:								
SAND AND GRAVEL:								
MICHIGAN	-	-	-	-	-	1	-	1
SOUTH CAROLINA	-	1	-	-	-	-	-	1
TOTAL	-	1	-	-	-	1	-	2
SURFACE MINES:								
DREDGE:								
SAND AND GRAVEL:								
NEBRASKA	-	-	-	-	-	1	-	1
NEW JERSEY	-	1	-	-	-	-	-	1
TOTAL	-	1	-	-	-	1	-	2
TOTAL SURFACE:								
SAND AND GRAVEL:								
MICHIGAN	-	-	-	-	-	1	-	1
NEBRASKA	-	-	-	-	-	1	-	1
NEW JERSEY	-	1	-	-	-	-	-	1
SOUTH CAROLINA	-	1	-	-	-	-	-	1
TOTAL	-	2	-	-	-	2	-	4
TOTAL MINING:								
SAND AND GRAVEL:								
MICHIGAN	-	-	-	-	-	1	-	1
NEBRASKA	-	-	-	-	-	1	-	1
NEW JERSEY	-	1	-	-	-	-	-	1
SOUTH CAROLINA	-	1	-	-	-	-	-	1
TOTAL	-	2	-	-	-	2	-	4
TOTAL, MINES AND PLANTS:								
SAND AND GRAVEL:								
MICHIGAN	-	-	-	-	-	1	-	1
NEBRASKA	-	-	-	-	-	1	-	1
NEW JERSEY	-	1	-	-	-	-	-	1
SOUTH CAROLINA	-	1	-	-	-	-	-	1
TOTAL	-	2	-	-	-	2	-	4
GRAND TOTAL:								
SAND AND GRAVEL:								
MICHIGAN	-	-	-	-	-	1	-	1
NEBRASKA	-	-	-	-	-	1	-	1
NEW JERSEY	-	1	-	-	-	-	-	1
SOUTH CAROLINA	-	1	-	-	-	-	-	1
TOTAL	-	2	-	-	-	2	-	4

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TABLE 18. - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, AND EMPLOYEE-HOURS BY WORK LOCATION AND MINERAL INDUSTRY, 1983

(OPERATOR DATA)

WORK LOCATION AND MINERAL INDUSTRY	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS REPORTED
UNDERGROUND MINES										
METAL	7	.06	690	6.38	512	4.73	1,209	11.17	12,670	21,639,602
NONMETAL	5	.10	255	5.31	122	2.54	382	7.96	5,034	9,598,047
STONE	-	-	78	4.72	17	1.03	95	5.75	1,768	3,306,677
TOTAL, UNDERGROUND MINES	12	.07	1,023	5.92	651	3.77	1,686	9.76	19,472	34,544,326
SURFACE MINES										
METAL	3	.02	332	2.73	205	1.69	540	4.44	12,737	24,322,770
NONMETAL	2	.03	153	2.21	85	1.23	240	3.47	7,616	13,821,842
STONE	10	.04	849	3.24	334	1.27	1,193	4.55	29,487	52,463,734
SUBTOTAL, SURFACE MINES	15	.03	1,334	2.94	624	1.38	1,973	4.36	49,840	90,608,346
SAND AND GRAVEL	15	.06	573	2.41	239	1.01	827	3.48	30,350	47,538,705
TOTAL, SURFACE MINES	30	.04	1,907	2.76	863	1.25	2,800	4.05	80,190	138,147,051
TOTAL, MINES	42	.05	2,930	3.39	1,514	1.75	4,486	5.20	99,662	172,691,377
MILLS										
METAL	4	.02	514	2.88	431	2.41	949	5.31	18,916	35,730,550
NONMETAL	1	.01	595	3.32	332	1.85	928	5.18	18,067	35,796,479
STONE	6	.02	1,106	3.15	605	1.72	1,717	4.89	35,640	70,168,956
TOTAL, MILLS	11	.02	2,215	3.13	1,368	1.93	3,594	5.07	72,623	141,695,985
INDEPENDENT SHOPS AND YARDS										
METAL	-	-	12	1.60	6	.80	18	2.40	760	1,497,871
NONMETAL	-	-	-	-	-	-	-	-	10	22,630
STONE	-	-	2	1.41	3	2.12	5	3.53	139	283,019
TOTAL, SHOPS AND YARDS	-	-	14	1.55	9	1.00	23	2.55	909	1,803,520
ALL MINES, MILLS AND SHOPS										
METAL	14	.03	1,548	3.72	1,154	2.77	2,716	6.53	45,083	83,190,793
NONMETAL	8	.03	1,003	3.39	539	1.82	1,550	5.23	30,727	59,238,998
STONE	16	.03	2,035	3.22	959	1.52	3,010	4.77	67,034	126,222,386
SUBTOTAL	38	.03	4,586	3.41	2,652	1.97	7,276	5.42	142,844	268,652,177
SAND AND GRAVEL	15	.06	573	2.41	239	1.01	827	3.48	30,350	47,538,705
TOTAL, MINES/MILLS/SHOPS	53	.03	5,159	3.26	2,891	1.83	8,103	5.13	173,194	316,190,882
OFFICEWORKERS										
METAL	-	-	12	.18	8	.12	20	.30	6,946	13,282,409
NONMETAL	-	-	3	.06	5	.09	8	.15	5,882	10,835,475
STONE	-	-	10	.10	5	.05	15	.15	10,694	20,068,277
SAND AND GRAVEL	-	-	3	.08	2	.05	5	.13	5,244	7,613,469
TOTAL, OFFICEWORKERS	-	-	28	.11	20	.08	48	.19	28,766	51,799,630
SUMMARY TOTAL (INCLUDES OFFICE-WORKERS)										
METAL	14	.03	1,560	3.23	1,162	2.41	2,736	5.67	52,029	96,473,202
NONMETAL	8	.02	1,006	2.87	544	1.55	1,558	4.45	36,609	70,074,473
STONE	16	.02	2,045	2.80	964	1.32	3,025	4.14	77,728	146,290,663
SUBTOTAL	38	.02	4,611	2.95	2,670	1.71	7,319	4.68	166,366	312,838,338
SAND AND GRAVEL	15	.05	576	2.09	241	.87	832	3.02	35,594	55,152,174
GRAND TOTAL	53	.03	5,187	2.82	2,911	1.58	8,151	4.43	201,960	367,990,512

TABLE 19. - RELATED COAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, EMPLOYEE-HOURS AND PRODUCTION BY TYPE OF COAL MINED AND WORK LOCATION, 1983

(OPERATOR DATA)

TYPE OF COAL AND WORK LOCATION	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS REPORTED	PRODUCTION REPORTED (SHORT TONS)
BITUMINOUS COAL											
UNDERGROUND MINES											
UNDERGROUND	44	.06	6,602	8.58	1,362	1.77	8,008	10.40	88,561	153,945,160	291,720,829
SURFACE	7	.08	460	5.40	149	1.75	616	7.23	9,880	17,050,754	-
TOTAL, UNDERGROUND MINES	51	.06	7,062	8.26	1,511	1.77	8,624	10.09	98,441	170,995,914	291,720,829
SURFACE MINES											
STRIP MINES	11	.02	1,434	2.66	690	1.28	2,135	3.96	56,743	107,904,645	461,702,259
AUGER MINES	-	-	7	3.70	4	2.12	11	5.82	446	378,067	1,362,848
OTHER SURFACE MINES	-	-	6	4.32	1	.72	7	5.04	209	277,566	421,861
TOTAL, SURFACE MINES	11	.02	1,447	2.67	695	1.28	2,153	3.97	57,398	108,560,278	463,486,968
TOTAL, PRODUCTION MINING	62	.04	8,509	6.09	2,206	1.58	10,777	7.71	155,839	279,556,192	755,207,797
PREPARATION PLANTS	3	.02	603	3.95	206	1.35	812	5.32	16,485	30,554,596	-
INDEPENDENT SHOPS/YARDS	1	.04	66	2.91	20	.88	87	3.84	2,541	4,535,316	-
TOTAL, OTHER OPERATIONS	4	.02	669	3.81	226	1.29	899	5.12	19,026	35,089,912	-
TOTAL, BITUMINOUS MINING	66	.04	9,178	5.83	2,432	1.55	11,676	7.42	174,865	314,646,104	755,207,797
PENNSYLVANIA ANTHRACITE COAL											
UNDERGROUND MINES											
UNDERGROUND	-	-	23	8.17	-	-	23	8.17	479	563,168	421,549
SURFACE	-	-	-	-	-	-	-	-	95	100,113	-
TOTAL, UNDERGROUND MINES	-	-	23	6.94	-	-	23	6.94	574	663,281	421,549
SURFACE MINES											
STRIP MINES	1	.11	48	5.31	8	.88	57	6.30	1,133	1,808,340	2,437,805
CULM BANK	-	-	6	5.15	1	.86	7	6.00	184	233,166	971,143
DREDGE	-	-	-	-	-	-	-	-	12	17,068	4,787
TOTAL, SURFACE MINES	1	.10	54	5.25	9	.87	64	6.22	1,329	2,058,574	3,413,735
TOTAL, PRODUCTION MINING	1	.07	77	5.66	9	.66	87	6.39	1,903	2,721,855	3,835,284
PREPARATION PLANTS	-	-	51	7.27	2	.29	53	7.55	853	1,403,303	-
INDEPENDENT SHOPS/YARDS	-	-	5	14.68	-	-	5	14.68	52	68,121	-
TOTAL, OTHER OPERATIONS	-	-	56	7.61	2	.27	58	7.88	905	1,471,424	-
TOTAL, ANTHRACITE MINING	1	.05	133	6.34	11	.52	145	6.92	2,808	4,193,279	3,835,284
ALL COAL											
UNDERGROUND MINES											
UNDERGROUND	44	.06	6,625	8.58	1,362	1.76	8,031	10.40	89,040	154,508,328	292,142,378
SURFACE	7	.08	460	5.36	149	1.74	616	7.18	9,975	17,150,867	-
TOTAL, UNDERGROUND MINES	51	.06	7,085	8.25	1,511	1.76	8,647	10.07	99,015	171,659,195	292,142,378
SURFACE MINES											
STRIP MINES	12	.02	1,482	2.70	698	1.27	2,192	4.00	57,876	109,712,985	464,140,064
AUGER MINES	-	-	7	3.70	4	2.12	11	5.82	446	378,067	1,362,848
CULM BANK	-	-	10	5.11	2	1.02	12	6.13	304	391,523	1,211,457
DREDGE	-	-	2	2.94	-	-	2	2.94	101	136,277	186,334
TOTAL, SURFACE MINES	12	.02	1,501	2.71	704	1.27	2,217	4.01	58,727	110,618,852	466,900,703
TOTAL, PRODUCTION MINING	63	.04	8,586	6.08	2,215	1.57	10,864	7.70	157,742	282,278,047	759,043,081
PREPARATION PLANTS	3	.02	654	4.09	208	1.30	865	5.41	17,338	31,957,899	-
INDEPENDENT SHOPS/YARDS	1	.04	71	3.08	20	.87	92	4.00	2,593	4,603,437	-
TOTAL, OTHER OPERATIONS	4	.02	725	3.97	228	1.25	957	5.24	19,931	36,561,336	-
TOTAL, ALL COAL	67	.04	9,311	5.84	2,443	1.53	11,821	7.42	177,673	318,839,383	759,043,081
OFFICEWORKERS											
BITUMINOUS	-	-	14	.16	12	.13	26	.29	10,179	17,790,364	-
ANTHRACITE	-	-	1	.92	1	.92	2	1.83	121	218,525	-
TOTAL, OFFICEWORKERS	-		15	.17	13	.14	28	.31	10,300	18,008,989	-
GRAND TOTAL	67	.04	9,326	5.54	2,456	1.46	11,849	7.04	187,973	336,848,372	759,043,081

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CONTRACTOR DATA

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TABLE REFERENCE GUIDE (CONTRACTOR DATA)

The following reference guide facilitates locating particular data elements contained in the annual statistical tables for contractors. The number appearing in each cell indicates the table number in which that particular element may be found. All elements listed under the stub headings appear as vertical headings in the tables. Elements listed under column headings appear as horizontal headings. The only exception to this is table 1, in which the headings have been reversed.

To use this guide, read down or across the elements listed in both the stub and column headings to determine which combinations are of interest. For example, lost workdays by work location appear in six different tables, numbers 5, 7, 9, 12, 13, and 14. However, only one of these, table 9, provides a further division by nature of injury as well. The occupation of the injured is found in table 13 and, as seen in the column headings, provides the number of injuries, lost workdays, and average severity.

Although injuries and illnesses occurring to contractor employees are identifiable as to State in which they occurred or commodity mined, matching exposure hours are not available. Incidence rates for such employees are possible only at the national level for the various subunits and only for the coal industry as a whole and the noncoal industry as a whole. Consequently, certain tables have been entirely eliminated from the contractor portion of this report. The remaining tables are numbered to correspond with the comparable table in the operator portion of this report.

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REFERENCE GUIDE TO SAND AND GRAVEL STATISTICAL TABLES (CONTRACTOR DATA)

STUB HEADINGS / COLUMN HEADINGS	Number of injuries	Incidence rates *	Lost workdays	Average severity	Average number of workers *	Employee-hours worked *	Accident classification	Number of occupational illnesses	Coal production (short tons)
Prior year data with and without office 1/	1			1					
Work location	5		5	5					
	7		7	7					
	9		9	9					
	11						11		
			12				12		
	13		13	13					
	14		14	14					
								17	
	18	18			18	18			
	19	19			19	19			19
State	5		5	5					
	11						11		
			12				12		
								17	
Part of body injured	7		7	7					
	10		10	10					
	15		15	15					
Nature of injury	9		9	9					
	10		10	10					
	16		16	16					
Occupation at time of injury	13		13	13					
Accident classification	14		14	14					
	15		15	15					
	16		16	16					
								17	
Mineral-industry	18	18			18	18			
Type of coal	19	19			19	19			19

1/ For table 1 only, the headings have been reversed to simplify this guide; that is, the data elements indicated in the column headings for this table actually appear as vertical headings.

* Contractor data appearing in table 18 for the column headings denoted with an asterisk (*) in this guide are obtainable only for the noncoal industry as a whole and do not represent a particular mineral industry.

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TABLE 1. - GENERAL STATISTICS ON INJURY EXPERIENCE AND SEVERITY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

	EXCLUDING OFFICEWORKERS					INCLUDING OFFICEWORKERS				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
NUMBER OF INJURIES:										
FATAL					1					1
NFDL					4					4
TOTAL LWD INJURIES					5					5
NDL					3					3
TOTAL INJURIES					8					8
AVERAGE SEVERITY:										
PERMANENT PARTIAL					-					-
TEMPORARY NFDL					93					93
ALL LWD INJURIES					1,274					1,274

NOTE NO DATA AVAILABLE PRIOR TO 1983

TABLE 5. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
OPEN PIT:																	
NEVADA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
NORTH CAROLINA	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SOUTH CAROLINA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, SURFACE:																	
NEVADA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
NORTH CAROLINA	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SOUTH CAROLINA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, MINING:																	
NEVADA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
NORTH CAROLINA	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SOUTH CAROLINA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, ALL MINES AND PLANTS:																	
NEVADA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
NORTH CAROLINA	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SOUTH CAROLINA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
GRAND TOTAL OR AVERAGE:																	
NEVADA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
NORTH CAROLINA	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
SOUTH CAROLINA	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TEXAS	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

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TABLE 7. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND PART OF BODY INJURED AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
FOREARM	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
BODY SYSTEMS	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, MINING:																	
FOREARM	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
BODY SYSTEMS	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
GRAND TOTAL OR AVERAGE:																	
FOREARM	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
BODY SYSTEMS	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

TABLE 9. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, MINING:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
GRAND TOTAL OR AVERAGE:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	270	270	270	-	270	270
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	-	-	6,000	-	-	6,000
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	-	-	-	-
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	12	12	12	-	12	12
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

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TABLE 10. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR PART OF BODY AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

PART OF BODY AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
FOREARM:																	
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S):																	
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK:																	
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE:																	
CONTUSION OR BRUISE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
TOTAL OR AVERAGE	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
BODY SYSTEMS:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY:																	
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	ELECTRICAL			ENTRAPMENT			EXPLODING VESSELS UNDER PRESSURE			EXPLOSIVES AND BREAKING AGENTS			FALLING, ROLLING OR SLIDING MATERIAL			FALL OF FACE RIB, SIDE OR HIGHWALL			FALL OF ROOF (UNDERGROUND MINES ONLY)			FIRE			HANDLING MATERIAL			HANDTOOLS			NONPOWERED HAULAGE		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
OPEN PIT:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TEXAS	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TOTAL MINING:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TEXAS	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
GRAND TOTAL:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TEXAS	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

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TABLE 11. - NUMBER OF INJURIES BY ACCIDENT CLASSIFICATION AND DEGREE FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE			HOISTING			IGNITION OR EXPLOSION OF GAS OR DUST			IMPOUNDMENT			INUNDATION			MACHINERY			SLIPS OR FALLS OF PERSONS			STEPPING OR KNEELING ON OBJECT			STRIKING OR BUMPING			OTHER			TOTAL		
	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL	FTL	NFDL	NDL
OPEN PIT:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	-	-	-	-	-	-	-	-	-	1	4	3
TOTAL MINING:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	-	-	-	-	-	-	-	-	-	1	4	3
GRAND TOTAL:																																	
NEVADA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-
SOUTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	-	-	-	-	-	-	-	-	-	1	4	3

TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND STATE	ELECTRICAL		ENTRAPMENT		EXPLODING VESSELS UNDER PRESSURE		EXPLOSIVES AND BREAKING AGENTS		FALLING, ROLLING OR SLIDING MATERIAL		FALL OF FACE RIB, SIDE OR HIGHWALL		FALL OF ROOF (UNDERGROUND MINES ONLY)		FIRE		HANDLING MATERIAL		HANDTOOLS		NONPOWERED HAULAGE	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OPEN PIT:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL MINING:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	6,000	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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TABLE 12. - NUMBER OF LOST WORKDAYS BY ACCIDENT CLASSIFICATION AND DEGREE OF INJURY FOR WORK LOCATION AND STATE AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983 (CONTINUED)

WORK LOCATION AND STATE	POWERED HAULAGE		HOISTING		IGNITION OR EXPLOSION OF GAS OR DUST		IMPOUNDMENT		INUNDATION		MACHINERY		SLIPS OR FALLS OF PERSONS		STEPPING OR KNEELING ON OBJECT		STRIKING OR BUMPING		OTHER		TOTAL	
	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL	FTL	NFDL
OPEN PIT:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	86
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	4	-	12	-	-	-	-	-	-	-	16
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	270
TOTAL	-	-	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	6,000	372
TOTAL MINING:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	86
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	4	-	12	-	-	-	-	-	-	-	16
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	270
TOTAL	-	-	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	6,000	372
GRAND TOTAL:																						
NEW MEXICO	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	86
NORTH CAROLINA	-	-	-	-	-	-	-	-	-	-	-	4	-	12	-	-	-	-	-	-	-	16
TEXAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,000	270
TOTAL	-	-	-	-	-	-	-	-	-	-	-	4	-	98	-	-	-	-	-	-	6,000	372

TABLE 13. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND OCCUPATION AT TIME OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND OCCUPATION AT TIME OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
DRILL OPERATOR	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
ELECTRICIAN	-	-	-	1	1	1	1	2	-	-	-	270	270	270	-	270	270
LABORER	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PREP. PLANT OPR.	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TRUCK DRIVER	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, MINING:																	
DRILL OPERATOR	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
ELECTRICIAN	-	-	-	1	1	1	1	2	-	-	-	270	270	270	-	270	270
LABORER	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PREP. PLANT OPR.	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TRUCK DRIVER	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
GRAND TOTAL OR AVERAGE:																	
DRILL OPERATOR	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
ELECTRICIAN	-	-	-	1	1	1	1	2	-	-	-	270	270	270	-	270	270
LABORER	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
PREP. PLANT OPR.	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TRUCK DRIVER	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

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TABLE 14. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR WORK LOCATION AND ACCIDENT CLASSIFICATION AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION AND ACCIDENT CLASSIFICATION	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
SURFACE MINES:																	
OPEN PIT:																	
ELECTRICAL	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
HANDLING MATERIAL	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SLIPS OR FALLS OF PERSONS	-	-	-	2	2	2	1	3	-	-	-	98	98	98	-	49	49
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
TOTAL OR AVERAGE, MINING:																	
ELECTRICAL	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
HANDLING MATERIAL	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SLIPS OR FALLS OF PERSONS	-	-	-	2	2	2	1	3	-	-	-	98	98	98	-	49	49
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274
GRAND TOTAL OR AVERAGE:																	
ELECTRICAL	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
HANDLING MATERIAL	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SLIPS OR FALLS OF PERSONS	-	-	-	2	2	2	1	3	-	-	-	98	98	98	-	49	49
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

TABLE 15. - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND PART OF BODY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

ACCIDENT CLASSIFICATION AND PART OF BODY INJURED	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL:																	
BODY SYSTEMS	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
HANDLING MATERIAL:																	
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY:																	
KNEE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SLIPS OR FALLS OF PERSONS:																	
FOREARM	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
TOTAL OR AVERAGE	-	-	-	2	2	2	1	3	-	-	-	98	98	98	-	49	49
TOTAL OR AVERAGE:																	
FOREARM	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
FINGER(S)	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BACK	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
KNEE	-	-	-	2	2	2	-	2	-	-	-	16	16	16	-	8	8
BODY SYSTEMS	1	-	-	-	-	1	1	2	6,000	-	-	-	-	6,000	-	-	6,000
MULTIPLE PARTS OF BODY	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

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TABLE 16 - NUMBER OF INJURIES, LOST WORKDAYS, AND AVERAGE SEVERITY BY DEGREE FOR ACCIDENT CLASSIFICATION AND NATURE OF INJURY AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

ACCIDENT CLASSIFICATION AND NATURE OF INJURY	NUMBER OF INJURIES								LOST WORKDAYS						AVERAGE SEVERITY		
	FATAL	NFDL				TOTAL FATAL AND NFDL	NDL	TOTAL INJURIES	FATAL	NFDL				TOTAL FATAL AND NFDL	PERMANENT PARTIAL	TEMPORARY	TOTAL FATAL AND NFDL
		PERMANENT		TEMPORARY	TOTAL NFDL					PERMANENT		TEMPORARY	TOTAL NFDL				
		TOTAL	PARTIAL							TOTAL	PARTIAL						
ELECTRICAL:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
TOTAL OR AVERAGE	1	-	-	1	1	2	1	3	6,000	-	-	270	270	6,270	-	270	3,135
HANDLING MATERIAL:																	
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
TOTAL OR AVERAGE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MACHINERY:																	
CONTUSION OR BRUISE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
TOTAL OR AVERAGE	-	-	-	1	1	1	-	1	-	-	-	4	4	4	-	4	4
SLIPS OR FALLS OF PERSONS:																	
CONTUSION OR BRUISE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	-	-	-	2	2	2	1	3	-	-	-	98	98	98	-	49	49
TOTAL OR AVERAGE:																	
ASPHYXIATION/DROWNING	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
BURN/SCALD (NOT CHEM.)	-	-	-	1	1	1	-	1	-	-	-	270	270	270	-	270	270
CONTUSION OR BRUISE	-	-	-	1	1	1	1	2	-	-	-	4	4	4	-	4	4
ELECTRIC SHOCK	1	-	-	-	-	1	-	1	6,000	-	-	-	-	6,000	-	-	6,000
FRACTURE	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
MULTIPLE INJURIES	-	-	-	1	1	1	-	1	-	-	-	12	12	12	-	12	12
UNCLASSIFIED (NO DATA)	-	-	-	1	1	1	-	1	-	-	-	86	86	86	-	86	86
TOTAL OR AVERAGE	1	-	-	4	4	5	3	8	6,000	-	-	372	372	6,372	-	93	1,274

TABLE 17. - OCCURRENCES REPORTED TO MSHA AS OCCUPATIONAL ILLNESSES AT CONTRACTOR SAND AND GRAVEL OPERATIONS IN THE UNITED STATES, 1983

WORK LOCATION, MINERAL INDUSTRY AND STATE	SKIN DISEASES OR DISORDERS	DUST DISEASES OF THE LUNGS	RESPIRATORY CONDITIONS DUE TO TOXIC AGENTS	POISONING-SYSTEMIC EFFECTS OF TOXIC MATERIALS	DISORDERS DUE TO PHYSICAL AGENTS (NONTOXIC)	DISORDERS ASSOCIATED WITH REPEATED TRAUMA	ALL OTHER OCCUPATIONAL ILLNESSES	TOTAL OCCUPATIONAL ILLNESSES

NO DATA REPORTED FOR SAND AND GRAVEL IN 1983

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TABLE 18. - RELATED NONCOAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, AND EMPLOYEE-HOURS BY WORK LOCATION AND MINERAL INDUSTRY, 1983

(CONTRACTOR DATA)

WORK LOCATION AND MINERAL INDUSTRY	FATAL	FATAL INCIDENCE RATE 1/	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS REPORTED
UNDERGROUND MINES										
METAL	2		40		28		70			
NONMETAL	-		33		25		58			
STONE	-		1		-		1			
TOTAL, UNDERGROUND MINES	2	.18	74	6.57	53	4.71	129	11.46	2,665	2,251,325
SURFACE MINES										
METAL	3		72		29		104			
NONMETAL	-		20		18		38			
STONE	-		15		1		16			
SUBTOTAL, SURFACE MINES	3		107		48		158			
SAND AND GRAVEL	1		4		3		8			
TOTAL, SURFACE MINES	4	.13	111	3.62	51	1.66	166	5.41	5,875	6,137,219
TOTAL, MINES	6	.14	185	4.41	104	2.48	295	7.03	8,540	8,388,544
MILLS										
METAL	-		10		6		16			
NONMETAL	2		8		4		14			
STONE	1		21		22		44			
TOTAL, MILLS	3	.21	39	2.73	32	2.24	74	5.18	2,813	2,858,397
INDEPENDENT SHOPS AND YARDS										
METAL	-		-		-		-			
NONMETAL	-		-		-		-			
STONE	-		-		-		-			
TOTAL, SHOPS AND YARDS	-		-		-		-		382	209,874
ALL MINES, MILLS AND SHOPS										
METAL	5		122		63		190			
NONMETAL	2		61		47		110			
STONE	1		37		23		61			
SUBTOTAL	8		220		133		361			
SAND AND GRAVEL	1		4		3		8			
TOTAL, MINES/MILLS/SHOPS	9	.16	224	3.91	136	2.37	369	6.44	11,735	11,456,815
OFFICEWORKERS										
METAL	-		1		-		1			
NONMETAL	-		-		-		-			
STONE	-		1		-		1			
SAND AND GRAVEL	-		-		-		-			
TOTAL, OFFICEWORKERS	-		2	.41	-		2	.41	966	986,079
SUMMARY TOTAL (INCLUDES OFFICEWORKERS)										
METAL	5		123		63		191			
NONMETAL	2		61		47		110			
STONE	1		38		23		62			
SUBTOTAL	8		222		133		363			
SAND AND GRAVEL	1		4		3		8			
GRAND TOTAL	9	.14	226	3.63	136	2.19	371	5.96	12,701	12,442,894

TABLE 19. - RELATED COAL MINING SUMMARY REFERENCE TABULATION, NUMBER OF INJURIES, INCIDENCE RATES, AVERAGE NUMBER OF WORKERS, EMPLOYEE-HOURS AND PRODUCTION BY TYPE OF COAL MINED AND WORK LOCATION, 1983

(CONTRACTOR DATA)

TYPE OF COAL AND WORK LOCATION	FATAL	FATAL INCIDENCE RATE	NFDL	NFDL INCIDENCE RATE	NDL	NDL INCIDENCE RATE	ALL OCCURRENCES	ALL INCIDENCE RATE	AVERAGE NUMBER OF WORKERS	EMPLOYEE-HOURS REPORTED	PRODUCTION REPORTED (SHORT TONS)
BITUMINOUS COAL											
UNDERGROUND MINES											
UNDERGROUND	1		65		16		82				
SURFACE	2		32		8		42				
TOTAL, UNDERGROUND MINES	3		97		24		124				
SURFACE MINES											
STRIP MINES	-		74		36		110				
AUGER MINES	-		5		3		8				
OTHER SURFACE MINES	-		-		-		-				
TOTAL, SURFACE MINES	-		79		39		118				
TOTAL, PRODUCTION MINING	3		176		63		242				
PREPARATION PLANTS	-		56		8		64				
INDEPENDENT SHOPS/YARDS	-		-		-		-				
TOTAL, OTHER OPERATIONS	-		56		8		64				
TOTAL, BITUMINOUS MINING	3		232		71		306				
PENNSYLVANIA ANTHRACITE COAL											
UNDERGROUND MINES											
UNDERGROUND	-		2		-		2				
SURFACE	-		-		-		-				
TOTAL, UNDERGROUND MINES	-		2		-		2				
SURFACE MINES											
STRIP MINES	-		-		-		-				
CULM BANK	-		-		-		-				
DREDGE	-		-		-		-				
TOTAL, SURFACE MINES	-		-		-		-				
TOTAL, PRODUCTION MINING	-		2		-		2				
PREPARATION PLANTS	-		-		-		-				
INDEPENDENT SHOPS/YARDS	-		-		-		-				
TOTAL, OTHER OPERATIONS	-		-		-		-				
TOTAL, ANTHRACITE MINING	-		2		-		2				
ALL COAL											
UNDERGROUND MINES											
UNDERGROUND	1	.20	67	13.59	16	3.25	84	17.04	763	985,797	22,048
SURFACE	2	.25	32	4.02	8	1.00	42	5.27	1,706	1,593,769	-
TOTAL, UNDERGROUND MINES	3	.23	99	7.68	24	1.86	126	9.77	2,469	2,579,566	22,048
SURFACE MINES											
STRIP MINES	-		74	2.58	36	1.25	110	3.83	5,430	5,743,747	2,138,926
AUGER MINES	-		5	5.20	3	3.12	8	8.32	146	192,356	1,131,835
CULM BANK	-		-		-		-		59	51,431	63,434
DREDGE	-		-		-		-		13	20,254	-
TOTAL, SURFACE MINES	-		79	2.63	39	1.30	118	3.93	5,648	6,007,788	3,334,195
TOTAL, PRODUCTION MINING	3	.07	178	4.15	63	1.47	244	5.68	8,117	8,587,354	3,356,243
PREPARATION PLANTS	-		56	3.75	8	.54	64	4.29	2,583	2,986,767	-
INDEPENDENT SHOPS/YARDS	-		-		-		-		612	515,600	-
TOTAL, OTHER OPERATIONS	-		56	3.20	8	.46	64	3.65	3,195	3,502,367	-
TOTAL, ALL COAL	3	.05	234	3.87	71	1.17	308	5.10	11,312	12,089,721	3,356,243
OFFICEWORKERS											
BITUMINOUS	-		2		-		2				
ANTHRACITE	-		-		-		-				
TOTAL, OFFICEWORKERS	-		2	.39	-		2	.39	914	1,026,554	-
GRAND TOTAL	3	.05	236	3.60	71	1.08	310	4.73	12,226	13,116,275	3,356,243

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